Ref 9/A

17 MAY 1962

BIOLOGISCHE BUNDESANSTALT
FÜR LAND- UND FORSTWIRTSCHAFT
IN BERLIN-DAHLEM

BIBLIOGRAPHIE DER PFLANZENSCHUTZ-LITERATUR

BIBLIOGRAPHY OF PLANT PROTECTION

BIBLIOGRAPHIE DE LA PROTECTION DES PLANTES

1952

Bearbeitet von

Regierungsrat

Dr. J. Bärner

Berlin 1959

Im Buchhandel zu beziehen durch den Verlag Paul Parey, Berlin und Hamburg
Auslieferung: Berlin SW 61, Lindenstraße 44-47 (Westberlin)

Vorwort

Die »Bibliographie der Pflanzenschutzliteratur« wurde von Oberregierungsrat Professor Dr. Morstatt im Jahre 1921 zum ersten Male herausgegeben und umfaßt in 26 Bänden die Pflanzenschutzliteratur der Jahre 1914—1951. Vorliegende Bibliographie enthält über 12700 Literaturzitate des Jahres 1952.

Die von Prof. Morstatt geschaffenen Gruppierungen wurden beibehalten. Um jedoch aus dem umfangreichen Material ein schnelles und sicheres Auffinden der gesuchten Literatur zu gewährleisten, war es unerläßlich, die einzelnen Kapitel, ihrem Umfang entsprechend, weiter aufzuteilen. Dies trifft besonders für die einzelnen Abschnitte über pilzliche Parasiten und Insektenschädlinge zu. Aus praktischen Erwägungen heraus sind hier die Überschriften lateinisch bezeichnet und systematisch geordnet. Wo sich jedoch die systematische Gliederung als unzweckmäßig erwies, wurde eine alphabetische Anordnung der betreffenden Familien und Gattungen bevorzugt, so z. B. in den Abschnitten III, 5 »Handelspflanzen« und III, 9 »Zierpflanzen«.

Die mit römischen und arabischen Zahlen versehenen Hauptabteilungen und Hauptkapitel blieben, entsprechend der Aufteilung früherer Ausgaben der Bibliographie der Pflanzenschutzliteratur, unverändert, um eine laufende Eingruppierung der Literaturnachweise in die Gesamtkartei des Pflanzenschutzes zu ermöglichen. Diese befindet sich in der Biologischen Bundesanstalt für Land- und Forstwirtschaft, Berlin-Dahlem, und umfaßt etwa 300000 Karteikarten.

Sämtliche Kapitelüberschriften sind in einem ausführlichen Inhaltsverzeichnis aufgeführt, und es ist empfehlenswert, vor dem Aufsuchen von Literatur diesen Index weitgehend zu benutzen. Hinzukommen die »lebenden Kolumnentitel«, die für eine allgemeine Orientierung ausreichend sind.

Titel, Einleitungen, Kapitelüberschriften und »lebende Kolumnentitel« werden in drei Sprachen, deutsch, englisch und französisch, wiedergegeben. Erläuterungen zur Quellenangabe, wie Seitenzahlen, Abbildungen usw., erscheinen bei Literaturzitaten deutscher Arbeiten in deutscher Sprache, bei ausländischen durchgehend in lateinischer. Die entsprechenden Abkürzungen sind nachfolgender Tabelle zu entnehmen:

lateinisch		deutsch		englisch	französisch
ann.	= annuus	Jahrg.	= Jahrgang	annual publication	année
ed.	= editio	Aufl.	= Auflage	edition	édition
fig.	= figura(e)	Abb.	= Abbildung(en)	figure	figure, illustration
nr.	= numerus	Nr.	= Nummer(n) Heft(e)	number	numéro
n. ser.	= nova series	n. S.	= neue Serie neue Reihe	new series	série nouvelle
p.	= pagina(e)	S.	= Seite(n)	page	page
separ.	= separatum	Sdr.	= Sonderdruck	special print	tirage à part
tab.	= tabula	Taf.	= Tafel(n)	plate	planche
tab. col.	= tabula colorata	Farbtaf.	= Farbtafel(n)	coloured plate	planche en couleurs
tab. geogr.	= tabula geographica	Kart.	= Karte(n) Landkarte(n)	map	carte
vol.	= volumen	Bd. Bde.	= Band = Bände	volume	volume, tome

Um bei der Dokumentation von Veröffentlichungen allgemeinen Inhalts Überschneidungen zu vermeiden, sind auch den Untergruppierungen Kapitel mit allgemeinen Themen vorangestellt.

Literaturangaben über die Gattungen *Morus* und *Salix* wurden gesondert an den Schluß des Kapitels III, 8 »Forstgehölze« gestellt.

In eckigen Klammern beigefügte Texte dienen zur besseren Inhaltsbezeichnung des Literaturzitats.

Allen, die dazu beigetragen haben, die oft beträchtlichen Schwierigkeiten beim weiteren Ausbau der Bibliographie der Pflanzenschutzliteratur zu überwinden, sei an dieser Stelle besonders gedankt.

Berlin-Dahlem, den 28. März 1959 **Johannes Bärner**

Introduction

The »Bibliographie der Pflanzenschutzliteratur« was issued the first time by Oberregierungsrat Prof. Dr. Morstatt in 1921, and includes in 26 volumes the phytopathological literature for the years 1914—1951. This bibliography comprises more than 12 700 titles for 1952.

The provided arrangements of Prof. Morstatt were kept on. In order to guarantee a fast and sure way of locating the desired literature it was indispensable to classify the single chapter according to their extents in a more particular way. This is especially true of the single sections on the mycological parasites and entomological pests. From a practical consideration, the headings have been written in the Latin language and have been arranged systematically. Where the systematical classification has proved unsuitable, however, an alphabetical one of the families and species concerned has been used, such as in chapter III, 5 »Commercial plants« and in chapter III, 9 »Ornamental plants«.

The main departments and chapters, using Roman and Arabic numerals, have remained unchanged according to the classification of the former editions of the bibliographies of plant protection, thus facilitating a continuous arrangement of the literature works of reference into a card index of plant protection. This card index is to be found in the »Biologische Bundesanstalt für Land- und Forstwirtschaft, Berlin-Dahlem«, and comprises more than 300 000 cards.

All the chapter headings have been specified in the detailed contents. Hence, it is recommended to use this index extensively before looking up the desired literature. In addition, there are the »living headings«, which are sufficient for general information.

Titles, introductions, chapter headings and »living headings« have been written in three languages, German, English, and French. Explanations as to the sources, the numbers of pages, figures, etc., have appeared in the German language where German works are quoted and in Latin for all the foreign works. The abbreviations used are to be taken from the following table:

Latin		German		English	French
ann.	= annuus	Jahrg.	= Jahrgang	annual publication	année
ed.	= editio	Aufl.	= Auflage	edition	édition
fig.	= figura(e)	Abb.	= Abbildung(en)	figure	figure, illustration
nr.	= numerus	Nr.	= Nummer(n) Heft(e)	number	numéro
n. scr.	= nova series	n. S.	= neue Serie neue Reihe	new series	série nouvelle
p.	= pagina(e)	S.	= Seite(n)	page	page
separ.	= separatum	Sdr.	= Sonderdruck	special print	tirage à part
tab.	= tabula	Taf.	= Tafel(n)	plate	planche
tab. col.	= tabula colorata	Farbtaf.	= Farbtafel(n)	coloured plate	planche en couleurs
tab. geogr.	= tabula geographica	Kart.	= Karte(n) Landkarte(n)	map	carte
vol.	= volumen	Bd. Bde.	= Band = Bände	volume	volume, tome

In order to avoid repetition of the quotations of literature, »general parts« have been inserted into the sub-chapters.

Statements of literature on the species of *Morus* and *Salix* have been put at the end of chapter III, 8 »Forest trees«.

Texts within cornered brackets serve as more distinct contents of the quotations of literature.

To all those who have contributed to overcoming the often considerable difficulties in completing this bibliography of the literature of plant protection, I give particular thanks.

Berlin-Dahlem, March 28, 1959 **Johannes Bärner**

Introduction

La »Bibliographie der Pflanzenschutzliteratur« fut publiée dès 1921 par le Oberregierungsrat Prof. Dr. Morstatt. En 26 volumes, elle compile la littérature spéciale de la période de 1914—1951. Ce tome contient plus que 12700 titres de l'année 1952.

La classification adoptée par Prof. Morstatt est gardée; cependant il était indispensable de spécifier davantage les chapitres les plus volumineux afin de faciliter les travaux désirés dans le matérial considérable. En particulier cette subdivision a été appliquée aux chapitres traitant des champignons pathogènes et des insectes nuisibles. Il a été considéré pratique de reproduire les en-têtes de ces chapitres en latin et de les classer systématiquement. L'ordre alphabétique a été préféré pour les familles et genres dont une classification systématique n'était pas indiquée, par exemple chapitre III, 5 »plantes du commerce« et III, 9 »plantes horticoles«.

Les divisions et chapitres principaux munis de chiffres romains et arabes sont restés inchangés. Ils correspondent toujours à ceux des éditions précédentes de la »Bibliographie der Pflanzenschutzliteratur« afin de faciliter l'enregistrement dans le fichier de la protection des plantes. Celui se trouve à »Biologische Bundesanstalt für Land- und Forstwirtschaft« à Berlin-Dahlem et comporte plus de 300 000 fiches.

Tous les en-têtes figurent sur une table des matières détaillée et pour les recherches de littérature nous recommandons de se servir toujours de cet index. S'y ajoutent les »titres courants« qui suffiront pour une orientation générale.

Les titres, les introductions, les en-têtes et les »titres courants« se trouvent reproduits en allemand, français et anglais. Les renseignements concernant l'indication des sources (numéros des pages, illustrations etc.) figurent en allemand s'il s'agit de publications allemandes et en latin pour les publications étrangères. Les abréviations se trouvent expliquées ci-après:

latin		allemand		français	anglais
ann.	= annuus	Jahrg.	= Jahrgang	année	annual publication
ed.	= editio	Aufl.	= Auflage	édition	edition
fig.	= figura(e)	Abb.	= Abbildung(en)	figure, illustration	figure
nr.	= numerus	Nr.	= Nummer(n) Heft(e)	numéro	number
n. ser.	= nova series	n. S.	= neue Serie neue Reihe	série nouvelle	new series
p.	= pagina(e)	S.	= Seite(n)	page	page
separ.	= separatum	Sdr.	= Sonderdruck	tirage à part	special print
tab.	= tabula	Taf.	= Tafel(n)	planche	plate
tab. col.	= tabula colorata	Farbtaf.	= Farbtafel(n)	planche en couleurs	coloured plate
tab. geogr.	= tabula geographica	Kart.	= Karte(n) Landkarte(n)	carte	map
vol.	= volumen	Bd. Bde.	= Band = Bände	volume, tome	volume

Des chapitres d'un thème général précédent aussi les subdivisions afin d'éviter des répétitions dans la documentation.

La littérature citée pour les genres *Morus* et *Salix* est traitée à part à la fin du chapitre III, 8 »arbres forestiers«.

Les textes entre crochets précisent le contenu de la littérature citée.

Nous tenons à remercier particulièrement tous ceux qui ont contribué à surmonter les difficultés s'opposant à l'achèvement de la »Bibliographie der Pflanzenschutzliteratur«.

Berlin-Dahlem, 28 mars 1959 **Johannes Bärner**

Inhaltsverzeichnis

Seite

I. Allgemeiner Teil

1. Sammelwerke und Lehrbücher 1

2. Tätigkeitsberichte und Kongresse

a) **Europa** 2

b) **Amerika** 3

USA 3

c) **Asien** 4

d) **Afrika** 4

e) **Australien und Südsee** 5

3. Bibliographien 5

4. Biographien 5

II. Krankheiten und Ursachen

1. Allgemeine Krankheitslehre 7

a) **Pathologische Pflanzenanatomie, Gallen, Teratologie** 7

b) **Pathologische Pflanzenphysiologie** 8

2. Krankheiten mit verschiedenartigen oder unbekannten Ursachen 9

3. Nichtparasitäre Krankheiten

a) **Bodenverhältnisse, Düngung** 9

b) **Mangelkrankheiten** 11

c) **Klimatische Einflüsse** 12

d) **Physikalische und chemische Einflüsse, Industrieschäden, Schädigung der Pflanzen durch Pflanzenschutzmittel** 15

e) **Wunden** 18

4. Pflanzliche Feinde

a) **Bacteriophyta** 18

b) **Myxophyta** 20

c) **Fungi**

Allgemeiner Teil 20

Spezieller Teil

Archimycetes 22

Phycomycetes 22

Ascomycetes 23

Basidiomycetes 25

Fungi imperfecti 26

Varia 29

Seite

d) Phanerogamae ... 29

e) Unkräuter

Allgemeiner Teil ... 29

Spezieller Teil

Amaranthaceae ... 31
Anacardiaceae ... 31
Araliaceae ... 32
Asclepiadaceae ... 32
Betulaceae ... 32
Boraginaceae ... 32
Cactaceae ... 32
Campanulaceae ... 32
Caprifoliaceae ... 32
Chenopodiaceae ... 32
Compositae ... 32
Convolvulaceae ... 33
Cruciferae ... 33
Cyperaceae ... 33
Euphorbiaceae ... 33
Fagaceae ... 34
Gramineae ... 34
Gymnospermae ... 35
Hypericaceae ... 36
Labiatae ... 36
Leguminosae ... 36
Liliaceae ... 36
Polygonaceae ... 36
Pontederiaceae ... 36
Pteridophyta ... 36
Ranunculaceae ... 37
Rhamnaceae ... 37
Rubiaceae ... 37
Scrophulariaceae ... 37
Solanaceae ... 37
Umbelliferae ... 37
Urticaceae ... 37
Varia ... 37

5. Tierische Feinde

a) Nematodes ... 38

b) Mollusca ... 40

c) Arthropoda: Acari ... 41

d) Arthropoda: Hexapoda

Allgemeiner Teil ... 42
Apterygota ... 45
Orthoptera ... 45

Seite

Dermaptera ... 50
Isoptera ... 50
Thysanoptera ... 51
Heteroptera ... 51
Homoptera ... 52
Coleoptera
Allgemeiner Teil ... 56
Carabidae ... 56
Staphylinidae ... 56
Elateridae ... 57
Buprestidae ... 57
Dermestidae ... 57
Nitidulidae ... 57
Coccinellidae ... 58
Lyctidae, Bostrychidae ... 58
Anobiidae, Meloidae, Alleculidae ... 58
Tenebrionidae ... 58
Scarabaeidae ... 58
Lucanidae, Cerambycidae ... 61
Chrysomelidae ... 61
Bruchidae, Platypodidae ... 62
Curculionidae ... 62
Scolytoidea ... 63
Lepidoptera ... 63
Diptera ... 70
Neuroptera ... 71
Hymenoptera ... 71
Varia ... 74

e) Vertebrata

Aves ... 74
Mammalia
Insectivora ... 75
Rodentia ... 75
Artiodactyla ... 77

6. Virus

a) Allgemeiner Teil ... 78
b) Virus und Wirtspflanzen ... 78
c) Identifizierung, Mikroskopie und Reinigung ... 79
d) Chemische und physikalische Eigenschaften ... 80
e) Serologische Reaktion ... 80
f) Übertragung ... 81
g) Bekämpfung, Inaktivierung und Desinfektion ... 82
h) Nomenklatur ... 82

Seite

III. Krankheiten und Wirtspflanzen

1. Vegetation und Kulturpflanzen im allgemeinen. Übersicht über das Auftreten von Pflanzenkrankheiten und Schädlingen

a) Übersichten ... 83

b) Einzelne Gruppen von Krankheiten und Schädlingen ... 85

2. Getreide

a) Allgemeiner Teil ... 87

b) Nichtparasitäre Krankheiten ... 88

c) Pflanzliche Feinde

Bacteriophyta ... 91

Fungi

Allgemeiner Teil ... 91
Phycomycetes ... 92
Ascomycetes ... 92
Basidiomycetes ... 93
Fungi imperfecti ... 98
Varia ... 100

Saatgut-Beizung ... 101

Unkräuter ... 102

d) Tierische Feinde

Nematodes ... 104

Arthropoda ... 105
Pyrausta nubilalis ... 108

Vertebrata ... 109

e) Virus ... 109

3. Kartoffeln und Rüben ... 110

a) Kartoffeln

Allgemeiner Teil ... 110

Nichtparasitäre Krankheiten ... 112

Pflanzliche Feinde ... 112
Phytophthora infestans ... 114
Synchytrium endobioticum ... 117
Unkräuter ... 117

Tierische Feinde ... 117
Nematodes ... 118
Leptinotarsa decemlineata ... 119

Virus ... 121

Seite

b) Rüben

Allgemeiner Teil ... 124
Nichtparasitäre Krankheiten ... 125
Pflanzliche Feinde ... 125
Unkräuter ... 127
Tierische Feinde ... 127
Nematodes ... 128
Virus ... 128

4. Hülsenfrüchte und Gräser

a) Allgemeiner Teil ... 130

b) Hülsenfrüchte

Allgemeiner Teil ... 130
Lens, Phaseolus, Pisum, Soja
Allgemeiner Teil ... 131
Nichtparasitäre Krankheiten ... 131
Pflanzliche Feinde ... 132
Unkräuter ... 134
Tierische Feinde ... 135
Virus ... 136
Lathyrus, Lupinus, Medicago, Onobrychis, Ornithopus, Trifolium, Vicia et al.
Allgemeiner Teil ... 137
Nichtparasitäre Krankheiten ... 137
Pflanzliche Feinde ... 138
Unkräuter ... 139
Tierische Feinde ... 139
Virus ... 141

c) Gräser

Allgemeiner Teil ... 141
Nichtparasitäre Krankheiten ... 141
Pflanzliche Feinde ... 142
Unkräuter ... 143
Tierische Feinde ... 145
Virus ... 146

5. Handelspflanzen

a) Tabak

Allgemeiner Teil ... 146
Nichtparasitäre Krankheiten ... 147
Pflanzliche Feinde ... 147
Unkräuter ... 148
Tierische Feinde ... 148
Virus ... 149

b) Faserpflanzen ... 151

c) Hopfen ... 152

Seite

d) Ölpflanzen

Allgemeiner Teil ... 153

Spezieller Teil

Brassica, Sinapis ... 153
Helianthus ... 154
Linum usitatissimum = III 5 b ... 151
Olea ... 154
Papaver ... 156

e) Gemüsepflanzen

Allgemeiner Teil ... 156
Nichtparasitäre Krankheiten ... 157
Pflanzliche Feinde ... 157
Unkräuter ... 157
Tierische Feinde ... 158
Virus ... 158
Spezieller Teil
Allium ... 158
Apium graveolens ... 160
Asparagus officinalis ... 160
Brassica
Allgemeiner Teil ... 161
Nichtparasitäre Krankheiten ... 161
Pflanzliche Feinde ... 161
Unkräuter ... 162
Tierische Feinde ... 162
Virus ... 164
Capsicum ... 164
Citrullus, Cucumis, Cucurbita ... 165
Daucus carota ... 166
Lactuca sativa ... 167
Lycopersicon esculentum
Allgemeiner Teil ... 168
Nichtparasitäre Krankheiten ... 168
Pflanzliche Feinde ... 169
Tierische Feinde ... 171
Virus ... 172
Nasturtium ... 173
Pastinaca sativa ... 173
Raphanus sativus ... 173
Rheum ... 173
Solanum melongena ... 173
Spinacia oleracea ... 173
Varia ... 174

f) Arznei- und Gewürzpflanzen ... 174

g) Varia ... 175

Seite

6. Obst

a) Allgemeiner Teil ... 175

b) Nichtparasitäre Krankheiten ... 177

c) Pflanzliche Feinde ... 179
Unkräuter ... 179

d) Tierische Feinde
Allgemeiner Teil ... 180
Nematodes ... 180
Heteroptera ... 180
Homoptera ... 180
Quadraspidiotus (Aspidiotus) perniciosus ... 180
Coleoptera ... 181
Lepidoptera ... 181
Diptera ... 182
Hymenoptera ... 183
Arachnoidea ... 183
Vertebrata ... 184

e) Virus ... 184

f) Schädlingsbekämpfung an Obstbäumen ... 184

g) Spezieller Teil
Steinobst
Allgemeiner Teil ... 190
Nichtparasitäre Krankheiten ... 190
Pflanzliche Feinde ... 191
Tierische Feinde ... 193
Virus ... 195
Kernobst
Allgemeiner Teil ... 197
Nichtparasitäre Krankheiten ... 198
Pflanzliche Feinde ... 200
Venturia (Fusicladium) ... 201
Tierische Feinde ... 203
Anthonomus ... 205
Carpocapsa (Cydia, Laspeyresia) ... 206
Virus ... 207
Beerenobst
Allgemeiner Teil ... 207
Nichtparasitäre Krankheiten ... 208
Pflanzliche Feinde ... 208
Unkräuter ... 209
Tierische Feinde ... 210
Virus ... 211

Seite

Schalenobst
Allgemeiner Teil ... 212
Nichtparasitäre Krankheiten ... 213
Pflanzliche Feinde ... 215
Tierische Feinde ... 216
Virus ... 219
Carya, Castanea, Corylus, Juglans, Prunus amygdalus ... 220

h) Ficus ... 223

7. Weinrebe

a) Allgemeiner Teil ... 223
b) Nichtparasitäre Krankheiten ... 224
c) Pflanzliche Feinde ... 225
d) Tierische Feinde ... 227
e) Virus ... 229

8. Forstgehölze, Nutzhölzer, Holzzerstörer und Holzschutz

a) Allgemeiner Teil ... 229

b) Nichtparasitäre Krankheiten
Klimaeinflüsse ... 233
Bodeneinflüsse und chemische Einflüsse ... 235
Waldbrände ... 235

c) Pflanzliche Feinde
Bacteria ... 238
Fungi
Allgemeiner Teil ... 239
Ascomycetes ... 239
Basidiomycetes ... 240
Fungi imperfecti ... 242
Varia ... 244
Phanerogamae ... 244
Unkräuter ... 244

d) Tierische Feinde
Arthropoda: Hexapoda, Arachnoidea
Allgemeiner Teil ... 245
Heteroptera ... 247
Homoptera ... 247
Thysanoptera ... 248
Coleoptera ... 248
Lepidoptera ... 251
Diptera ... 254

Seite

Hymenoptera ... 254
Acari ... 255
Varia ... 255
Vertebrata ... 255

e) Ulmensterben ... 257
f) Virus ... 257
g) Holzschutz ... 257
h) Salix ... 261
i) Morus ... 261

9. Zierpflanzen, Garten- und Gewächshauspflanzen

a) Allgemeiner Teil ... 261
b) Spezieller Teil

Amaryllidaceae ... 263
Araceae ... 264
Begoniaceae ... 264
Cactaceae ... 264
Caryophyllaceae ... 264
Compositae ... 265
Crassulaceae ... 267
Cruciferae ... 267
Ericaceae ... 267
Geraniaceae ... 267
Gesneriaceae ... 267
Iridaceae ... 268
Leguminosae ... 269
Liliaceae ... 269
Magnoliaceae ... 269
Malvaceae ... 270
Oleaceae ... 270
Orchidaceae ... 270
Primulaceae ... 270
Pteridophyta ... 271
Ranunculaceae ... 271
Rosaceae ... 271
Saxifragaceae ... 272
Scrophulariaceae ... 272
Theaceae ... 272
Verbenaceae ... 272
Violaceae ... 272
Varia ... 272

10. Tropische Nutzpflanzen

a) Allgemeiner Teil ... 273
b) Baumwolle

Allgemeiner Teil ... 274

Seite

Nichtparasitäre Krankheiten ... 274
Pflanzliche Feinde ... 275
Unkräuter ... 276
Tierische Feinde ... 277
c) Erdnuß ... 280
d) Kakao ... 281
e) Kaffee ... 282
f) Kautschuk ... 283
g) Knollengewächse ... 284
h) Kokosnuß und andere Palmen ... 285
i) Nutzhölzer ... 286
k) Obst ... 287
l) Tee ... 289
m) Zuckerrohr ... 290
n) Varia ... 293
Eucalyptus = III 10 i ... 286

11. Vorratsschutz

a) Allgemeiner Teil ... 294
b) Kartoffeln und Rüben ... 297
c) Getreide ... 298
d) Hülsenfrüchte ... 303
e) Obst und Gemüse ... 303
f) Tabak ... 305
g) Holz und Papier ... 305
h) Textilien ... 310
i) Varia ... 311

12. Krankheiten nicht kultivierter Pflanzen und der Kryptogamen ... 311

IV. Maßnahmen des Pflanzenschutzes

1. Pflanzenhygiene

a) Einfluß der Umgebung, insbesondere des Klimas, auf Pflanzenkrankheiten: Phänologie der Parasiten ... 313
b) Prädisposition, Immunität und Resistenz ... 313
c) Kulturmethoden (Bodenbearbeitung, Düngung usw.) ... 314
d) Überwachung, Wanderung und Verschleppung von Krankheiten, Saatenanerkennung, Quarantäne ... 315

2. Pflanzentherapie

a) Untersuchungs- und Bekämpfungstechnik
Allgemeiner Teil ... 317
Spritzung, Bestäubung und Räucherung ... 319

Seite

Saatgutbehandlung ... 321

Bodendesinfektion ... 321

b) Biologische Bekämpfung

Allgemeiner Teil ... 322

Natürliche Feinde der Pflanzenschädlinge

Protozoa, Bacteriophagaceae, Virus ... 323

Bacteriophyta ... 324

Fungi ... 324

Nematodes ... 325

Arthropoda ... 325

Vertebrata ... 330

Vogelschutz ... 330

Biologische Unkrautbekämpfung ... 331

Antibiotica ... 331

c) Chemische Bekämpfung

Allgemeiner Teil ... 334

Fungizide im allgemeinen ... 338

Herbizide im allgemeinen ... 339

Wachstumsregulatoren ... 345

Nematozide im allgemeinen = II 5 a ... 38

Acarizide im allgemeinen ... 348

Insektizide im allgemeinen ... 348

Rodentizide im allgemeinen ... 354

Kupferverbindungen ... 356

Quecksilberverbindungen ... 356

Arsenverbindungen ... 356

Schwefelverbindungen ... 356

Phosphorverbindungen ... 357

Zyanverbindungen ... 359

Halogenverbindungen ... 359

Natriumchlorat gegen Unkräuter ... 363

Pflanzenstoffe und synthetische Analoge ... 363

Varia ... 365

d) Physikalische und mechanische Mittel, Geräte ... 367

e) Toxikologie der Pflanzenschutzmittel ... 372

3. Förderung und Organisation des Pflanzenschutzes ... 377

4. Gesetzgebung und Verwaltung im Pflanzenschutz ... 379

5. Statistik über die Verbreitung von Pflanzenkrankheiten und Schädlingen (Kosten und Rentabilität) ... 380

Autorenverzeichnis ... 381

Contents

Page

I. General part

1. Collective works and textbooks 1

2. Reports of activity and congresses

a) Europe 2

b) America 3

USA 3

c) Asia 4

d) Africa 4

e) Australia and South-Sea 5

3. Bibliographies 5

4. Biographies 5

II. Diseases and causes

1. General pathology 7

a) Pathological anatomy of plants, galls, teratology 7

b) Pathological plant physiology 8

2. Diseases with various or unknown causes 9

3. Diseases not caused by parasites

a) Soil conditions, manuring 9

b) Deficiency diseases 11

c) Climatic influences 12

d) Physical and chemical influences, industrial damage, damage caused by pest control materials 15

e) Wounds 18

4. Vegetal parasites

a) Bacteriophyta 18

b) Myxophyta 20

c) Fungi

General part 20

Special part

Archimycetes 22

Phycomycetes 22

Ascomycetes 23

Basidiomycetes 25

Fungi imperfecti 26

Varia 29

Page

d) Phanerogamae 29

e) Weeds

General part 29

Special part

Amaranthaceae 31
Anacardiaceae 31
Araliaceae 32
Asclepiadaceae 32
Betulaceae 32
Boraginaceae 32
Cactaceae 32
Campanulaceae 32
Caprifoliaceae 32
Chenopodiaceae 32
Compositae 32
Convolvulaceae 33
Cruciferae 33
Cyperaceae 33
Euphorbiaceae 33
Fagaceae 34
Gramineae 34
Gymnospermae 35
Hypericaceae 36
Labiatae 36
Leguminosae 36
Liliaceae 36
Polygonaceae 36
Pontederiaceae 36
Pteridophyta 36
Ranunculaceae 37
Rhamnaceae 37
Rubiaceae 37
Scrophulariaceae 37
Solanaceae 37
Umbelliferae 37
Urticaceae 37
Varia 37

5. Animal parasites

a) Nematodes 38

b) Mollusca 40

c) Arthropoda: Acari 41

d) Arthropoda: Hexapoda

General part 42
Apterygota 45
Orthoptera 45

Page

Dermaptera ... 50
Isoptera ... 50
Thysanoptera ... 51
Heteroptera ... 51
Homoptera ... 52
Coleoptera
General part ... 56
Carabidae ... 56
Staphylinidae ... 56
Elateridae ... 57
Buprestidae ... 57
Dermestidae ... 57
Nitidulidae ... 57
Coccinellidae ... 58
Lyctidae, Bostrychidae ... 58
Anobiidae, Meloidae, Alleculidae ... 58
Tenebrionidae ... 58
Scarabaeidae ... 58
Lucanidae, Cerambycidae ... 61
Chrysomelidae ... 61
Bruchidae, Platypodidae ... 62
Curculionidae ... 62
Scolytoidea ... 63
Lepidoptera ... 63
Diptera ... 70
Neuroptera ... 71
Hymenoptera ... 71
Varia ... 74

e) Vertebrata

Aves ... 74
Mammalia
Insectivora ... 75
Rodentia ... 75
Artiodactyla ... 77

6. Virus

a) General part ... 78
b) Virus and host plants ... 78
c) Identification, microscopy and purification ... 79
d) Chemical and physical properties ... 80
e) Serological reaction ... 80
f) Transmission ... 81
g) Control measures, inaction and disinfection ... 82
h) Nomenclature ... 82

Page

III. Diseases and host plants

1. Vegetation and cultivated plants in general. Survey of the incidence of plant diseases and parasites

a) Surveys ... 83

b) Single groups of diseases and parasites ... 85

2. Cereals

a) General part ... 87

b) Diseases not caused by parasites ... 88

c) Vegetal parasites

Bacteriophyta ... 91

Fungi

General part ... 91

Phycomycetes ... 92

Ascomycetes ... 92

Basidiomycetes ... 93

Fungi imperfecti ... 98

Varia ... 100

Seed disinfection ... 101

Weeds ... 102

d) Animal parasites

Nematodes ... 104

Arthropoda ... 105

Pyrausta nubilalis ... 108

Vertebrata ... 109

e) Virus ... 109

3. Potatoes and beets ... 110

a) Potatoes

General part ... 110

Diseases not caused by parasites ... 112

Vegetal parasites ... 112

Phytophthora infestans ... 114

Synchytrium endobioticum ... 117

Weeds ... 117

Animal parasites ... 117

Nematodes ... 118

Leptinotarsa decemlineata ... 119

Virus ... 121

Page

b) Beets

General part ... 124
Diseases not caused by parasites ... 125
Vegetal parasites ... 125
Weeds ... 127
Animal parasites ... 127
Nematodes ... 128
Virus ... 128

4. Legumes and grasses

a) General part ... 130

b) Legumes

General part ... 130
Lens, Phaseolus, Pisum, Soja
General part ... 131
Diseases not caused by parasites ... 131
Vegetal parasites ... 132
Weeds ... 134
Animal parasites ... 135
Virus ... 136
Lathyrus, Lupinus, Medicago, Onobrychis, Ornithopus, Trifolium, Vicia et al.
General part ... 137
Diseases not caused by parasites ... 137
Vegetal parasites ... 138
Weeds ... 139
Animal parasites ... 139
Virus ... 141

c) Grasses

General part ... 141
Diseases not caused by parasites ... 141
Vegetal parasites ... 142
Weeds ... 143
Animal parasites ... 145
Virus ... 146

5. Commercial plants

a) Tobacco

General part ... 146
Diseases not caused by parasites ... 147
Vegetal parasites ... 147
Weeds ... 148
Animal parasites ... 148
Virus ... 149

b) Fibre-plants ... 151

c) Hop ... 152

Page

d) Oleiferous plants

General part 153
Special part
Brassica, Sinapis 153
Helianthus 154
Linum usitatissimum = III 5 b 151
Olea 154
Papaver 156

e) Vegetables

General part 156
Diseases not caused by parasites 157
Vegetal parasites 157
Weeds 157
Animal parasites 158
Virus 158
Special part
Allium 158
Apium graveolens 160
Asparagus officinalis 160
Brassica
General part 161
Diseases not caused by parasites 161
Vegetal parasites 161
Weeds 162
Animal parasites 162
Virus 164
Capsicum 164
Citrullus, Cucumis, Cucurbita 165
Daucus carota 166
Lactuca sativa 167
Lycopersicon esculentum
General part 168
Diseases not caused by parasites 168
Vegetal parasites 169
Animal parasites 171
Virus 172
Nasturtium 173
Pastinaca sativa 173
Raphanus sativus 173
Rheum 173
Solanum melongena 173
Spinacia oleracea 173
Varia 174

f) Medicinal plants and spices 174

g) Varia 175

Page

6. Fruits

a) General part ... 175

b) Diseases not caused by parasites ... 177

c) Vegetal parasites ... 179
Weeds ... 179

d) Animal parasites

General part ... 180
Nematodes ... 180
Heteroptera ... 180
Homoptera ... 180
Quadraspidiotus (Aspidiotus) perniciosus ... 180
Coleoptera ... 181
Lepidoptera ... 181
Diptera ... 182
Hymenoptera ... 183
Arachnoidea ... 183
Vertebrata ... 184

e) Virus ... 184

f) Fruit-trees protection ... 184

g) Special part

Stone fruits

General part ... 190
Diseases not caused by parasites ... 190
Vegetal parasites ... 191
Animal parasites ... 193
Virus ... 195

Pip fruits

General part ... 197
Diseases not caused by parasites ... 198
Vegetal parasites ... 200
Venturia (Fusicladium) ... 201
Animal parasites ... 203
Anthonomus ... 205
Carpocapsa (Cydia, Laspeyresia) ... 206
Virus ... 207

Bacciform fruits

General part ... 207
Diseases not caused by parasites ... 208
Vegetal parasites ... 208
Weeds ... 209
Animal parasites ... 210
Virus ... 211

Page

Shell fruits
General part ... 212
Diseases not caused by parasites ... 213
Vegetal parasites ... 215
Animal parasites ... 216
Virus ... 219
Carya, Castanea, Corylus, Juglans, Prunus amygdalus ... 220

h) Ficus ... 223

7. Grape-vine

a) General part ... 223

b) Diseases not caused by parasites ... 224

c) Vegetal parasites ... 225

d) Animal parasites ... 227

e) Virus ... 229

8. Forest trees, timbers, parasites of wood and wood preservation

a) General part ... 229

b) Diseases not caused by parasites
Climatic influences ... 233
Soil and chemical influences ... 235
Forest fires ... 235

c) Vegetal parasites
Bacteria ... 238
Fungi
General part ... 239
Ascomycetes ... 239
Basidiomycetes ... 240
Fungi imperfecti ... 242
Varia ... 244
Phanerogamae ... 244
Weeds ... 244

d) Animal parasites
Arthropoda: Hexapoda, Arachnoidea
General part ... 245
Heteroptera ... 247
Homoptera ... 247
Thysanoptera ... 248
Coleoptera ... 248
Lepidoptera ... 251
Diptera ... 254

Page

Hymenoptera ... 254
Acari ... 255
Varia ... 255
Vertebrata ... 255

e) Dutch elm disease ... 257
f) Virus ... 257
g) Wood preservation ... 257
h) Salix ... 261
i) Morus ... 261

9. Ornamental plants, garden and greenhouse plants

a) General part ... 261
b) Special part
Amaryllidaceae ... 263
Araceae ... 264
Begoniaceae ... 264
Cactaceae ... 264
Caryophyllaceae ... 264
Compositae ... 265
Crassulaceae ... 267
Cruciferae ... 267
Ericaceae ... 267
Geraniaceae ... 267
Gesneriaceae ... 267
Iridaceae ... 268
Leguminosae ... 269
Liliaceae ... 269
Magnoliaceae ... 269
Malvaceae ... 270
Oleaceae ... 270
Orchidaceae ... 270
Primulaceae ... 270
Pteridophyta ... 271
Ranunculaceae ... 271
Rosaceae ... 271
Saxifragaceae ... 272
Scrophulariaceae ... 272
Theaceae ... 272
Verbenaceae ... 272
Violaceae ... 272
Varia ... 272

10. Tropical commercial plants

a) General part ... 273
b) Cotton
General part ... 274

Page

Diseases not caused by parasites ... 274
Vegetal parasites ... 275
Weeds ... 276
Animal parasites ... 277
c) Peanut (groundnut) ... 280
d) Cacao ... 281
e) Coffee ... 282
f) Caoutchouc ... 283
g) Tuberous plants ... 284
h) Coconut and other palms ... 285
i) Timbers ... 286
k) Fruits ... 287
l) Tea ... 289
m) Sugar-cane ... 290
n) Varia ... 293
Eucalyptus = III 10 i ... 286

11. Storage protection

a) General part ... 294
b) Potatoes and beets ... 297
c) Cereals ... 298
d) Legumes ... 303
e) Fruits and vegetables ... 303
f) Tobacco ... 305
g) Wood and paper ... 305
h) Textiles ... 310
i) Varia ... 311

12. Diseases of uncultivated plants and cryptogams ... 311

IV. Measures of plant protection

1. Plants hygiene

a) Environment influences, specially of the climate, on plant diseases: phenology of parasites ... 313
b) Predisposition, immunity and resistance ... 313
c) Cultivation methods (cultivation of the soil, manuring etc.) ... 314
d) Control, wandering and spreading of plant diseases, seed-inspection, quarantine 315

2. Plant therapeutics

a) Methods of examination and technics of disease control
General part ... 317
Sprays, dusts and fumigation ... 319

Page

Seed treatment ... 321
Soil disinfection ... 321

b) Biological control

General part ... 322
Natural enemies of plant parasites
Protozoa, Bacteriophagaceae, Virus ... 323
Bacteriophyta ... 324
Fungi ... 324
Nematodes ... 325
Arthropoda ... 325
Vertebrata ... 330
Bird protection ... 330
Biological control of weeds ... 331
Antibiotica ... 331

c) Control by chemicals

General part ... 334
Fungicides in general ... 338
Herbicides in general ... 339
Regulators of the growth ... 345
Nematocides in general = II 5 a ... 38
Acaricides in general ... 348
Insecticides in general ... 348
Rodenticides in general ... 354
Copper derivatives ... 356
Mercury derivatives ... 356
Arsenic derivatives ... 356
Sulfur derivatives ... 356
Phosphorus derivatives ... 357
Cyanides ... 359
Halogen derivatives ... 359
Sodium chlorate against weeds ... 363
Vegetal matter and synthetical analogues ... 363
Varia ... 365

d) Physical and mechanical means, machines ... 367

e) Toxicology of parasiticides ... 372

3. Advancement and organization of the plant protection ... 377

4. Legislation and administration of plant protection ... 379

5. Statistics of the incidence of plant diseases and parasites (costs and profitableness) ... 380

Index of authors ... 381

Table des matières

Page

I. Partie générale

1. Encyclopédies et livres d'instruction 1

2. Rapports d'activité et congrès

a) Europe 2

b) Amérique 3

USA 3

c) Asie 4

d) Afrique 4

e) Australie et Mer du Sud 5

3. Bibliographies 5

4. Biographies 5

II. Maladies et leurs causes

1. Pathologie générale 7

a) Anatomie pathologique des plantes, galles, tératologie 7

b) Physiologie pathologique des plantes 8

2. Maladies de cause diverse ou inconnue 9

3. Maladies non parasitaires

a) Conditions du sol, engrais 9

b) Maladies provoquées par manque de nourriture 11

c) Influence du climat 12

d) Influences physiques et chimiques, dégâts causés par l'industrie et des parasiticides 15

e) Blessures 18

4. Parasites végétaux

a) Bacteriophyta 18

b) Myxophyta 20

c) Fungi

Partie générale 20

Partie spéciale

Archimycetes 22

Phycomycetes 22

Ascomycetes 23

Basidiomycetes 25

Fungi imperfecti 26

Varia 29

Page

d) Phanerogamae 29

e) Mauvaises herbes

Partie générale 29

Partie spéciale

Amaranthaceae 31
Anacardiaceae 31
Araliaceae 32
Asclepiadaceae 32
Betulaceae 32
Boraginaceae 32
Cactaceae 32
Campanulaceae 32
Caprifoliaceae 32
Chenopodiaceae 32
Compositae 32
Convolvulaceae 33
Cruciferae 33
Cyperaceae 33
Euphorbiaceae 33
Fagaceae 34
Gramineae 34
Gymnospermae 35
Hypericaceae 36
Labiatae 36
Leguminosae 36
Liliaceae 36
Polygonaceae 36
Pontederiaceae 36
Pteridophyta 36
Ranunculaceae 37
Rhamnaceae 37
Rubiaceae 37
Scrophulariaceae 37
Solanaceae 37
Umbelliferae 37
Urticaceae 37
Varia 37

5. Parasites animaux

a) Nematodes 38

b) Mollusca 40

c) Arthropoda: Acari 41

d) Arthropoda: Hexapoda

Partie générale 42
Apterygota 45
Orthoptera 45

Page

Dermaptera ... 50
Isoptera ... 50
Thysanoptera ... 51
Heteroptera ... 51
Homoptera ... 52
Coleoptera
Partie générale ... 56
Carabidae ... 56
Staphylinidae ... 56
Elateridae ... 57
Buprestidae ... 57
Dermestidae ... 57
Nitidulidae ... 57
Coccinellidae ... 58
Lyctidae, Bostrychidae ... 58
Anobiidae, Meloidae, Alleculidae ... 58
Tenebrionidae ... 58
Scarabaeidae ... 58
Lucanidae, Cerambycidae ... 61
Chrysomelidae ... 61
Bruchidae, Platypodidae ... 62
Curculionidae ... 62
Scolytoidea ... 63
Lepidoptera ... 63
Diptera ... 70
Neuroptera ... 71
Hymenoptera ... 71
Varia ... 74

e) Vertebrata

Aves ... 74
Mammalia
Insectivora ... 75
Rodentia ... 75
Artiodactyla ... 77

6. Virus

a) Partie générale ... 78
b) Virus et plantes attaquées ... 78
c) Identification, microscopie et purification ... 79
d) Caractères chimiques et physiques ... 80
e) Réaction sérologique ... 80
f) Transmission ... 81
g) Lutte contre les maladies à virus, inactivation et désinfection ... 82
h) Nomenclature ... 82

Page

III. Maladies et plantes attaquées

1. Végétation et plantes cultivées en général. Résumé de la fréquence des maladies végétales et de leurs parasites

a) Résumés 83
b) Groupes spéciaux de maladies et de parasites 85

2. Céréales

a) Partie générale 87
b) Maladies non parasitaires 88
c) Parasites végétaux

Bacteriophyta 91

Fungi

Partie générale 91
Phycomycetes 92
Ascomycetes 92
Basidiomycetes 93
Fungi imperfecti 98
Varia 100

Désinfection de semences 101
Mauvaises herbes 102

d) Parasites animaux

Nematodes 104
Arthropoda 105
Pyrausta nubilalis 108
Vertebrata 109

e) Virus 109

3. Pommes de terre et betteraves 110

a) Pommes de terre

Partie générale 110
Maladies non parasitaires 112
Parasites végétaux 112
Phytophthora infestans 114
Synchytrium endobioticum 117
Mauvaises herbes 117
Parasites animaux 117
Nematodes 118
Leptinotarsa decemlineata 119
Virus 121

Page

b) Betteraves

Partie générale ... 124
Maladies non parasitaires ... 125
Parasites végétaux ... 125
Mauvaises herbes ... 127
Parasites animaux ... 127
Nematodes ... 128
Virus ... 128

4. Légumineuses et graminées

a) Partie générale ... 130

b) Légumineuses

Partie générale ... 130
Lens, Phaseolus, Pisum, Soja
Partie générale ... 131
Maladies non parasitaires ... 131
Parasites végétaux ... 132
Mauvaises herbes ... 134
Parasites animaux ... 135
Virus ... 136
Lathyrus, Lupinus, Medicago, Onobrychis, Ornithopus, Trifolium, Vicia et al.
Partie générale ... 137
Maladies non parasitaires ... 137
Parasites végétaux ... 138
Mauvaises herbes ... 139
Parasites animaux ... 139
Virus ... 141

c) Graminées

Partie générale ... 141
Maladies non parasitaires ... 141
Parasites végétaux ... 142
Mauvaises herbes ... 143
Parasites animaux ... 145
Virus ... 146

5. Plantes du commerce

a) Tabac

Partie générale ... 146
Maladies non parasitaires ... 147
Parasites végétaux ... 147
Mauvaises herbes ... 148
Parasites animaux ... 148
Virus ... 149

b) Plantes à fibres ... 151

c) Houblon ... 152

Page

d) Plantes oléifères

Partie générale 153

Partie spéciale

Brassica, Sinapis 153

Helianthus 154

Linum usitatissimum = III 5 b 151

Olea 154

Papaver 156

e) Plantes maraîchères

Partie générale 156

Maladies non parasitaires 157

Parasites végétaux 157

Mauvaises herbes 157

Parasites animaux 158

Virus 158

Partie spéciale

Allium 158

Apium graveolens 160

Asparagus officinalis 160

Brassica

Partie générale 161

Maladies non parasitaires 161

Parasites végétaux 161

Mauvaises herbes 162

Parasites animaux 162

Virus 164

Capsicum 164

Citrullus, Cucumis, Cucurbita 165

Daucus carota 166

Lactuca sativa 167

Lycopersicon esculentum

Partie générale 168

Maladies non parasitaires 168

Parasites végétaux 169

Parasites animaux 171

Virus 172

Nasturtium 173

Pastinaca sativa 173

Raphanus sativus 173

Rheum 173

Solanum melongena 173

Spinacia oleracea 173

Varia 174

f) Plantes médicinales et aromatiques 174

g) Varia 175

6. Fruits

Page

a) Partie générale ... 175
b) Maladies non parasitaires ... 177
c) Parasites végétaux ... 179
Mauvaises herbes ... 179
d) Parasites animaux
Partie générale ... 180
Nematodes ... 180
Heteroptera ... 180
Homoptera ... 180
Quadraspidiotus (Aspidiotus) perniciosus ... 180
Coleoptera ... 181
Lepidoptera ... 181
Diptera ... 182
Hymenoptera ... 183
Arachnoidea ... 183
Vertebrata ... 184
e) Virus ... 184
f) Lutte contre les parasites des arbres fruitiers ... 184
g) Partie spéciale
Fruits à noyaux
Partie générale ... 190
Maladies non parasitaires ... 190
Parasites végétaux ... 191
Parasites animaux ... 193
Virus ... 195
Fruits à pépins
Partie générale ... 197
Maladies non parasitaires ... 198
Parasites végétaux ... 200
Venturia (Fusicladium) ... 201
Parasites animaux ... 203
Anthonomus ... 205
Carpocapsa (Cydia, Laspeyresia) ... 206
Virus ... 207
Baies
Partie générale ... 207
Maladies non parasitaires ... 208
Parasites végétaux ... 208
Mauvaises herbes ... 209
Parasites animaux ... 210
Virus ... 211

Page

Fruits à coques
Partie générale ... 212
Maladies non parasitaires ... 213
Parasites végétaux ... 215
Parasites animaux ... 216
Virus ... 219
Carya, Castanea, Corylus, Juglans, Prunus amygdalus ... 220

b) Ficus ... 223

7. Vigne

a) Partie générale ... 223

b) Maladies non parasitaires ... 224

c) Parasites végétaux ... 225

d) Parasites animaux ... 227

e) Virus ... 229

8. Arbres forestiers, bois d'œuvre, parasites et protection du bois

a) Partie générale ... 229

b) Maladies non parasitaires
Influence du climat ... 233
Influence du sol et influences chimiques ... 235
Incendies de forêts ... 235

c) Parasites végétaux
Bacteria ... 238
Fungi
Partie générale ... 239
Ascomycetes ... 239
Basidiomycetes ... 240
Fungi imperfecti ... 242
Varia ... 244
Phanerogamae ... 244
Mauvaises herbes ... 244

d) Parasites animaux
Arthropoda: Hexapoda, Arachnoidea
Partie générale ... 245
Heteroptera ... 247
Homoptera ... 247
Thysanoptera ... 248
Coleoptera ... 248
Lepidoptera ... 251
Diptera ... 254

Page

Hymenoptera ... 254
Acari ... 255
Varia ... 255
Vertebrata ... 255
e) Maladie hollandaise des ormes ... 257
f) Virus ... 257
g) Protection du bois ... 257
h) Salix ... 261
i) Morus ... 261

9. Plantes horticoles, plantes de décoration et de serre

a) Partie générale ... 261
b) Partie spéciale

Amaryllidaceae ... 263
Araceae ... 264
Begoniaceae ... 264
Cactaceae ... 264
Caryophyllaceae ... 264
Compositae ... 265
Crassulaceae ... 267
Cruciferae ... 267
Ericaceae ... 267
Geraniaceae ... 267
Gesneriaceae ... 267
Iridaceae ... 268
Leguminosae ... 269
Liliaceae ... 269
Magnoliaceae ... 269
Malvaceae ... 270
Oleaceae ... 270
Orchidaceae ... 270
Primulaceae ... 270
Pteridophyta ... 271
Ranunculaceae ... 271
Rosaceae ... 271
Saxifragaceae ... 272
Scrophulariaceae ... 272
Theaceae ... 272
Verbenaceae ... 272
Violaceae ... 272
Varia ... 272

10. Plantes tropicales du commerce

a) Partie générale ... 273
b) Coton

Partie générale ... 274

Page

Maladies non parasitaires ... 274
Parasites végétaux ... 275
Mauvaises herbes ... 276
Parasites animaux ... 277
c) Arachide ... 280
d) Cacao ... 281
e) Café ... 282
f) Caoutchouc ... 283
g) Plantes à tubercules ... 284
h) Cocotier et autres palmiers ... 285
i) Bois d'œuvre ... 286
k) Fruits ... 287
l) Thé ... 289
m) Canne à sucre ... 290
n) Varia ... 293
Eucalyptus = III 10 i ... 286

11. Protection des stocks

a) Partie générale ... 294
b) Pommes de terre et betteraves ... 297
c) Céréales ... 298
d) Légumineuses ... 303
e) Fruits et plantes maraîchères ... 303
f) Tabac ... 305
g) Bois d'œuvre et papier ... 305
h) Textiles ... 310
i) Varia ... 311

12. Maladies des plantes non cultivées et des cryptogames ... 311

IV. Principes de la protection des plantes

1. Hygiène des plantes

a) Influence du milieu extérieur, surtout du climat, sur les maladies des plantes: phénologie des parasites ... 313
b) Prédisposition, l'immunité et résistance ... 313
c) Méthodes de cultivation (cultivation du sol, engrais etc.) ... 314
d) Surveillance, migration et importation des maladies végétales, inspection des semences, quarantaine ... 315

2. Thérapeutique des plantes

a) Méthodes de recherche et technique de la lutte contre les maladies
Partie générale ... 317
Pulvérisation, poudrage et fumigation ... 319

Page

Traitement de semences ... 321
Désinfection du sol ... 321

b) Lutte biologique

Partie générale ... 322
Ennemis naturels des parasites des plantes
Protozoa, Bacteriophagaceae, Virus ... 323
Bacteriophyta ... 324
Fungi ... 324
Nematodes ... 325
Arthropoda ... 325
Vertebrata ... 330
Protection des oiseaux ... 330
Lutte biologique contre les mauvaises herbes ... 331
Antibiotica ... 331

c) Lutte par des produits chimiques

Partie générale ... 334
Fongicides en général ... 338
Herbicides en général ... 339
Régulateurs de la croissance ... 345
Nematocides en général = II 5 a ... 38
Acaricides en général ... 348
Insecticides en général ... 348
Rodenticides en général ... 354
Dérivés du cuivre ... 356
Dérivés du mercure ... 356
Dérivés de l'arsenic ... 356
Dérivés du soufre ... 356
Dérivés du phosphore ... 357
Cyanures ... 359
Dérivés des halogènes ... 359
Chlorate de sodium contre des mauvaises herbes ... 363
Substances végétales et produits analogues synthétiques ... 363
Varia ... 365

d) Moyens physiques et mécaniques, outillage ... 367

e) Toxicologie des parasiticides ... 372

3. Avancement et organisation de la protection des plantes .. 377

4. Législation et administration pour la protection des plantes 379

5. Statistique de la fréquence des maladies végétales et de leurs parasites (frais et avantage) ... 380

Index alphabétique des auteurs ... 381

I. Allgemeiner Teil
General part — Partie générale

1. Sammelwerke und Lehrbücher
Collective works and textbooks — Encyclopédies et livres d'instruction

Baumeister, W., Mineralstoffe und Pflanzenwachstum. G. Fischer, Jena 1952. VIII + 176 S., 71 Abb.

Baxter, D. V., Pathology in forest practice. J. Wiley & Sons, Inc., New York, and Chapman & Hall, Ltd., London 1952. 2. ed., XIII + 601 p., 224 fig.

Ciferri, R., Manuale di patologia vegetale. (Malattie delle piante agrarie italiane.) Tomo I. Soc. Edit. Dante Alighieri, Roma 1952. 2. ed., VI + 490 p., 230 fig.

Dawes, B., A hundred years of biology. Gerald Duckworth & Co., Ltd., London 1952. 429 p., 24 fig.

Eichler, W., Die Tierwelt der Gewächshäuser. Akad. Verl.ges. Geest & Portig, K.-G., Leipzig 1952. IV + 93 S., 11 Abb.

Faes, H., Staehelin, M., et Bovey, P., La défense des plantes cultivées. Libr. Payot, Lausanne 1952. 3. ed., 339 p.

Fenton, F. A., Field crop insects. Macmillan, Comp., New York 1952. 405 p., 224 fig.

Fernandez Valiela, M. V., Introducción a la fitopatología (Introduction to phytopathology.) Talleres Graficos 'Gadola', Buenos Aires 1952. 2. ed., XXIV + 872 p., 178 fig., 1 tab.

Fey, H., Einführung in die Schädlingsbekämpfung. F. Vieweg & Sohn, Braunschweig 1952. 96 S., 50 Abb. (Neue Fachbuchreihe drogist. Ausbildg. Folge A, Bd. 12).

Frear, D. E. H., Pesticide handbook. Pennsylv. State Coll. Sci. Publishers 1952. 176 p.

Graham, S. A., Forest entomology. McGraw-Hill Book Comp., Inc., New York/Toronto/London 1952. 3. ed., XII + 351 p., 85 fig.

Cram, E., and **Weber, A.,** Plant diseases in orchard, nursery and garden crops. (Edited and adapted for English conditions by R. W. G. Dennis, translated from the Danish by E. Ramsden.) Macdonald & Co., Ltd., London 1952. 618 p., 349 fig.

Hierholzer, O., Taschenbuch des Forstschutzes gegen Tiere. Wirtschafts- u. Forstverl. Euting KG. 1952. 190 S., zahlr. Abb.

Keilbach, R., Fachkunde für Schädlingsbekämpfung. Volk u. Wissen Verl., Berlin 1952. 211 S., 290 Abb.

Nettles, W. C., Insect and plant disease handbook, South Carolina. Clemson agric. Col. South Carolina Ext. Bull. 114. 1952, 138 p.

Pieper, H., Das Saatgut. Ein Handbuch für Landwirte, landwirtschaftliche Berater, Organisationen und Behörden, Saatguthändler und landwirtschaftliche Genossenschaften. P. Parey, Berlin 1952. 2. Aufl., VI + 275 S., 55 Abb., 5 Taf.

Rippel-Baldes, A., Grundriß der Mikrobiologie. Springer-Verlag, Berlin/Göttingen/Heidelberg 1952. 2. Aufl., VII + 404 S., 153 Abb.

Ripper, W. E., Abel, A. L., Greenslade, R. M., Jary, S. G., and **Shorrock, R. W.,** Pest control. Farmers' handbook. Pest Control Ltd., Cambridge 1952. 10. ed., 103 p., 40 fig., 8 tab. col.

Robbins, W. W., Crafts, A. S., and **Raynor, R. N.,** Weed control. A textbook and manual. McGraw-Hill Book Comp., Inc., New York/London 1952. 2. ed., 503 p.

Rodgers III, A. D., Erwin Frink Smith. A story of North American plant pathology. Amer. philos. Soc., Philadelphia 1952. X + 675 p., 4 fig.

Roemer, Th., Scheibe, A., Schmidt, J., und **Woermann, E.,** Handbuch der Landwirtschaft. Bd. 1. P. Parey, Berlin 1952. 634 S.., 130 Abb.

Söding, H., Die Wuchsstofflehre. Ergebnisse und Probleme der Wuchsstofforschung. G. Thieme, Stuttgart 1952. X + 304 S., 76 Abb.

Stevens, N. E., and **Stevens, R. B.,** Diseases in plants. An introduction to agricultural phytopathology. Chron. bot. Comp., Waltham (Masachus.) 1952. 220 p., 61 fig.

Tinbergen, N., Instinktlehre. Vergleichende Erforschung angeborenen Verhaltens. (Übers. von O. Koehler.) P. Parey, Berlin u. Hamburg 1952. XII + 237 S., 130 Abb.

Weiss, F., and **O'Brien, M. J.,** Index of plant diseases in the United States. IV. Guttiferae — Phytolaccaceae. US Bur. Plant Ind., Soils, agric., Engin., Plant Dis. Surv. Spec. Publ. 1. 1952, nr. 4, p. 529—806.

Wille, J. E., Entomología agrícola del Perú. Minist. Agric., Lima (Perú) 1952. 2. ed. (rev., ampl.), VIII + 543 p., 221 fig.

Handbuch der Pflanzenkrankheiten. Bd. 6. Pflanzenschutz. Verhütung und Bekämpfung der Pflanzenkrankheiten. (Herausgegeben von Otto Appel.) P. Parey, Berlin u. Hamburg 1952. 2., neubearb. Aufl., 1. Liefg., 448 S., 3 Abb.

2. Tätigkeitsberichte und Kongresse
Reports of activity and congresses — Rapports d'activité et congrès

a. Europa
Europe — Europe

Åkerman, Å., Årsberättelse över Sveriges Utsädesförenings verksamhet år 1951. (Annual report on the work of the Swedish Seed Association for the year 1951.) Sver. Utsädesfören. Tidskr., Lund, 62. 1952, 219—285, 1 fig.

Böning, K., 50 Jahre Bayerische Landesanstalt für Pflanzenbau und Pflanzenschutz. Pflanzenschutz, München, 4. 1952, 125—128.

Böning, K., Pflanzenernährung und Pflanzenschutz. Festvortrag zur 50-Jahrfeier der Bayerischen Landesanstalt für Pflanzenbau und Pflanzenschutz im Maximilianeum zu München am 28. November 1952. Ztschr. Pfl.bau, -schutz 3. 1952, 193—202.

Brandt, H., Pflanzenschutztagung in Münster. Pflanzenschutz 4. 1952, 117—121, 2 Abb.

Breviglieri, N., I lavori del congresso internazionale di orticoltura. (The 13th International Horticultural Congress, London, 8th-15th September, 1952.) Riv. Ortoflorofruttic. ital. 36. 1952, 207—234.

Hansen, E. B., Meddelelser fra Foreningen til Svampekundskabens Fremme. [1951] Friesia, København, 4. 1952, 352—356.

Kobel, F., Jahresbericht 1949—1951 der Eidg. Versuchsanstalt für Obst-, Wein- und Gartenbau in Wädenswil. Landw. Jahrb. Schweiz 66 (NF. 1.). 1952, 563—699, 39 Abb.

Lienig, H., Bericht über die Versammlung der Entomologen des Rhein-Main-Gebietes in Bensheim a. d. B. Ent. Ztschr., Frankfurt a/M., 62. 1952, 39—40.

Merl, E. M., Bericht über die Untersuchungstätigkeit der Abteilung Samenprüfung der Bayerischen Landesanstalt für Pflanzenbau und Pflanzenschutz für die Jahre von 1946 bis 1952 Ztschr. Pfl.bau, -schutz 3. 1952, Sdr.-H. 5, S. 1—43.

Orloś, H., Sprawozdanie z prac Zakładu Chorób Roślin i Grzyboznawstwa. (Arbeitsbericht des Instituts für Pflanzenkrankheiten und Pilzkunde.) Sylwan 96. 1952, 121—126.

Pirie, N. W., Biochemistry Department. Rothamsted Exp. Stat., Harpenden, Rept. 1951. 1952, 89—92.

Régnier, R., La Société française de Phytiatrie et de Phytopharmacie; ses tendances et son programme. Phytoma, Paris, 5. 1952, nr. 40, p. 14—16.

Richter, H., Jahresbericht der Biologischen Bundesanstalt für Land- und Forstwirtschaft in Braunschweig, 1951. E. Appelhans & Co., Braunschweig 1952. 100 S., 13 Abb.

Sachtleben, H., Deutsches Entomologisches Institut. Dtsch. Akad. Landw.wiss. Berlin Jahrb. 1952. 1953, 112—117.

Stabl, Ch., Beretning fra Statsfrøkontrollen for det 80. arbejdsår fra 1. Juli 1950 til 30. Juni 1951. (Report from the Danish State Seed Testing Station for the 80th working year from 1st July 1950—30th June 1951.) Tidsskr. Planteavl, København, 55. 1952, 369—432.

Synge, P. M., Thirteenth International Horticultural Congress. [London] Nature, London, 170. 1952, 647—648.

Watson, D. J., Botany Department. Rothamsted Exp. Stat., Harpenden, Rept. 1951. 1952, 62—69.

Williams, C. B., Entomology Department. Rothamsted Exp. Stat., Harpenden, Rept. 1951. 1952, 101—107.

Deutschland: 30 Jahre Institut für Weinbau der Biologischen Bundesanstalt für Land- und Forstwirtschaft in Bernkastel. Anz. Schädl.kunde 25. 1952, 14.

Deutschland: Internationale Pflanzenschutz-Besprechung in München. Anz. Schädl.kunde 25. 1952, 110. — Pflanzenschutz 4. 1952, 69.

Deutschland: Internationale Pflanzenschutztagung in München. Naturwiss. Rundschau 5. 1952, 338—339.

Deutschland: Jahresbericht der Biologischen Bundesanstalt für Land- und Forstwirtschaft in Braunschweig 1951. E. Appelhans & Co., Braunschweig 1952. 100 S., 13 Abb.

Deutschland: Pflanzenschutz-Tagung der Biologischen Bundesanstalt Braunschweig in Würzburg, 23.—25. Oktober 1951. Mitt. Biol. Bundesanst. H. 74, 1952, 168 S., m. Abb.

Deutschland: Tätigkeitsbericht der Max-Planck-Gesellschaft zur Förderung der Wissenschaften für die Zeit vom 1. 4. 1951 bis 31. 3. 1952. Naturwissenschaften 39. 1952, 437—445, 461—475, 507—522.

Deutschland: Tätigkeitsbericht des Pflanzenschutzamtes der vorl. Landwirtschaftskammer Weser-Ems für das Jahr 1951. [1952] (ohne Quellenangabe).

Deutschland: Tagung der Deutschen Gesellschaft für angewandte Entomologie. Mühle 89. 1952, 740—741.

Frankreich: Institut National de la Recherche Agronomique. Rapport annuel 1950. Minist. Agric., Paris 1952. 205 p.

Frankreich: Rapport de la conférence méditerranéenne pour la protection des végétaux (Sicile, 20—23 octobre 1952) sur les parasites et les maladies interessant plus particulièrement les pays méditerranéens. Org. Europ. Prot. Plantes, Paris 1952. 23 p.

Frankreich: Séance de la Société de Phytiatrie et de Phytopharmacie du 18 Juin 1952. Phytoma, Paris, 5. 1952, nr. 41, p. 28—29.

Frankreich: Société française de Phytiatrie et de Phytopharmacie: Séance du Mercredi 22 Octobre 1952. Phytoma, Paris, 5. 1952, nr. 42, p. 21.

Frankreich: IIIe Congrès international de Phytopharmacie (Paris). Phytoma, Paris, 5. 1952, nr. 39, p. 28—29.

Großbritannien: Association of Applied Biologists Plant Pests and Diseases Committee; report for 1951. Ann. appl. Biol. 39. 1952, 290.

Großbritannien: Fernhurst International Conference. International Conference (on) some crop protection problems in world agriculture, 26th, 27th and 28th June 1951, Fernhurst Research Station. Proceedings. Plant Prot. London 1952. 116 p., 7 fig., 5 tab., 1 tab. geogr.

Großbritannien: Plant pathology division (Northern Ireland). North. Ireland Minist. Agric. Res., exp. Rec. 1951. 1952, 111—116.

Großbritannien: Report on forest research for the year ending March, 1951. H. M. Stat. Off., London 1952. VI + 139 p., 2 fig., 4 tab.

Großbritannien: Rothamsted Experimental Station, Harpenden: Report for 1951. Gibbs & Bamforth, Ltd., St. Albans 1952. 211 p., 1 tab. geogr.

Großbritannien: Seventh congress of British entomologists (organized by The Society for British Entomology), London, 21st-25th June, 1951. J. Soc. brit. Ent. 4. 1951, 12—23.

Großbritannien: Thirty-second report of the National Institute of Agricultural Botany, 1951 (Cambridge). ? 1952, 42 p.

Jugoslawien: Zavod za zaštitu bilja, Zagreb. Izvještaj o radu za 1945—1951. (Institut pour la protection des plantes. Rapport sur le travail effectué au cours des années 1945—1951.) Saschtita Bilja (Plant Prot.), Beograd, nr. 13—14. 1952, 86—118, 6 fig.

Niederlande: Centrale organisatie voor toegepast natuurwetenschappelijk onderzoek: Verslag over 1951. Inst. toegepast biol. Onderz. Nat., Oosterbeek (Mariëndaal), Meded. nr. 13. 1952, 50 p.

Niederlande: Verslag over de werkzaamheden van het Instituut voor plantenziektenkundig Onderzoek in 1951. Inst. plantenziektenkdg. Onderz., Wageningen 1952? 98 S., 17 Abb.

Norwegen: Årsberetning fra det norske Skogselskap for 1951. (Jahresbericht der nordischen Forstgesellschaft für 1951.) Grøndahl & Søns, Oslo 1952. 32 p.

Schweden: Berättelse över verksamheten vid Statens Skogsforskningsinstitut under år 1950. (Bericht über die Tätigkeit der Forstlichen Forschungsanstalt Schwedens im Jahre 1950.) Meddel. Stat. Skogsforskn.inst., Stockholm, 40 (1951). 1952, 1—21.

Schweiz: Stations fédérales d'essais agricoles de Mont-Calme et Montagibert, Lausanne et Pully: Rapport d'activité 1951. Ann. agric. Suisse 53. 1952, 915—1041, 16 fig., (Landw. Jahrb. Schweiz 66. 1952).

b. Amerika
America — Amérique

Conners, I. L., and Savile, D. B. O., Thirty-first annual report of the Canadian plant disease survey, 1951. 1952, XIX + 122 p.

Foster, W. R., and MacSwan, I. C., Report of plant pathology branch. Brit. Columbia Dept. Agric. Rept. 1951. 1952, Y49—Y53.

Leach, E. W., Administration report of the Director of Agriculture, Trinidad and Tobago, 1950. 1952, IX + 38 p.

Argentinien: Creacion de la Division de Immunologia vegetal y sus funciones. Inst. Fitotec., Buenos Aires, Hoja Inform. nr. 1 (1945). 1952, 7 p.

Guatemala: Informe del Instituto Agropecuario Nacional, Guatemala, por el periodo de julio 1° de 1951 a junio 30 de 1952. (Report of the National Institute for Agriculture and Livestock, Guatemala, for the period 1st July, 1951, to 30th June, 1952.) 1952. 97 p., 1 tab. geogr.

Kanada: Canadian Phytopathological Society: Proceedings, eighteenth session, June 25—28, 1951. Winnipeg (Man.) 1952. 29 p.

Kanada: Dominion experimental station Charlottetown. Canada Dept. Agric., Exp. Farms Serv., Progr. Rept. 1948—1952, 57 p., 23 tab.

Kanada: Progress Report 1948—1952. Canada Dept. Agric., Exp. Farms Serv., Dom. Exp. Stat. 1952, 1—45, 5 fig.

Kanada: Report of the Minister of Agriculture for Canada for the year ended March 31, 1952. Ottawa 1952, 117 p.

Kanada: Reports of Prairie Regional Laboratory, Saskatoon. Reports of Prairie Regional Committee. Nat. Res. Counc. Rev. 1951. 1952, 37—39, 216, 221—223.

Surinam: Verslag over de jaren 1946, 1947, 1948. (Report for the years 1946, 1947, and 1948.) Versl. Dept. Landbouw Suriname [1952], 67 p., 6 fig.

USA

Gilman, J. C., Notes and brief articles: The annual foray of the Mycological Society of America, 1951. Mycologia, Lancaster, 44. 1952, 716—719.

Lyle, J. A., Report and abstracts of the 1952 annual meeting of the Southern Division, American Phytopathological Society. Phytopathology 42. 1952, 281.

Udine, E. J., The Entomological Society of Pennsylvania minutes of the twenty-ninth annual meeting. J. econ. Ent. 45. 1952, 555.

Zentmyer, G. A., Report and abstracts of the thirty-fourth annual meeting of the Pacific Division of the American Phytopathological Society. Phytopathology 42. 1952, 511.

American Association of Economic Entomologists: Proceedings of the second annual meeting, Southwestern Branch. J. econ. Ent. 45. 1952, 759—762.

American Association of Economic Entomologists: Proceedings of the sixty-third annual meeting. J. econ. Ent. 45. 1952, 145—200.

American Association of Economic Entomologists: Proceedings of the thirty-sixth annual meeting, Pacific Branch. J. econ. Ent. 45. 1952, 1119—1122.

American Association of Economic Entomologists: Proceedings of the twenty-third annual meeting, Eastern Branch. J. econ. Ent. 45. 1952, 551—554.

American Phytopathological Society: Abstracts of papers accepted for presentation at the forty-fourth annual meeting of the American Phytopathological Society, Ithaca, New York, September 8, 9, 10, 1952. Phytopathology 42. 1952, 463.

American Phytopathological Society: Report and abstracts of the 9th annual meeting of the Potomac Division of the American Phytopathological Society. Phytopathology 42. 1952, 340.

American Phytopathological Society: Report of the 43rd annual meeting of the American Phytopathological Society. Phytopathology 42. 1952, 223—230.

Florida: Annual report of the agricultural experiment stations, Florida, for the year ending June 30, 1951. ?1952. 277 p., 31 fig.

Geneva: Seventieth annual report of the New York State Agricultural Experiment Station, Geneva, New York, 1951. [entomology and plant pathology] Cornell Univ. agric. Exp. Stat. 1952, 26 p.

Georgia Entomological Society: Minutes of the sixteenth annual spring meeting. J. econ. Ent. 45. 1952, 756—758.

Georgia Entomological Society: Report of the fifteenth annual spring meeting, Abraham Baldwin College, Tifton, Georgia, March 9—10, 1951. J. econ. Ent. 45. 1952, 556—558.

Georgia: Plant pathology and plant breeding. Georgia agric. Exp. Stat. Rept. 1950—1951. ?1952, 55—61.

Georgia: Serving Georgia through research. Georgia Coll. Agric., Exp. Stats. Ann. Rept. 1952, 35 p.

Iowa: Proceedings of the Iowa Academy of Science for 1952, Volume 59: The sixty-fourth session, held at Cedar Rapids, April 18 and 19, 1952. The State of Iowa, Des Moines 1952. 580 p.

New York: Sixty-fourth annual report of the New York State College of Agriculture at Cornell University and the Cornell University Agricultural Experiment Station, 1951. [entomology and plant pathology] New York State Univ., Albany 1952. 119 p.

New York State Agricultural Experiment Station, Geneva, New York; Seventh annual report 1951. [entomology and plant pathology] New York State Univ., Albany 1952, 26 p.

North Central States Branch, American Association of Economic Entomologists: Proceedings of seventh annual meeting. J. econ. Ent. 45. 1952, 753—755.

Oregon's agricultural progress through research, July 1, 1950 to June 30, 1951. Oregon agric. Exp. Stat. Bull. 508. 1952, 80 p., numerous fig.

Ottawa: Annual report of the director. Experimental farms service, 1950—1951. Canada Dept. Agric., Ottawa 1952, 26 p., 10 fig., 1 tab. geogr.

Pennsylvania: Science for the farmer. Pennsylv. agric. Exp. Stat. Rept. 1950—51 (Bull. 553). 1952, 68 p., 25 fig.

c. Asien
Asia — Asie

Majid, S., Annual report of the grow more food activities of the Department of Agriculture, Assam, for the year 1950—1951. Part II. 1952. III + 116 p.

Prasada, R., Fifth annual report of the Indian Phytopathological Society (1951). Indian Phytopath. 5. 1952, 57—58.

Indische Union: Proceedings of the eighth meeting of the crops and soils wing of the Board of Agricultural and Animal Husbandry in India held at Patiala from 28th to 31st March, 1950. Delhi 1952. 307 p.

Indische Union: Report of the Division of Mycology and Plant Pathology. New Delhi agric. Res. Inst. Sci. Rept. 1949—50. 1952, 81—88.

Indische Union: Report on the working of the Department of Agriculture, Madhya Pradesh, for the year ending the 31st March, 1949. 1952, 32 p.

Indische Union: Scientific reports of the Indian Agricultural Research Institute for the year ended 30th June, 1950. [Division of Mycology, Entomology, Plant Pathology] Manager Publ., Delhi 1952. 101 p.

Indische Union: The sixth annual report of the Indian Phytopathological Society (1952). Indian Phytopath. 5. 1952, 161.

d. Afrika
Africa — Afrique

Gillman, H., Report of the Acting Director of Agriculture. Nyasaland Dept. Agric. Rept. 1950. 1952, 36 p.

Orian, G., Plant Pathology Division. Mauritius Dept. Agric. Ann. Rept. 1951. 1952, 65—70.

Wallace, G. B., 1950 annual report of the plant pathogist, Lyamungu, Moshi. Tanganyika Dept. Agric. Rept. 1950. 1952, 167—172.

East African Agriculture and Forestry Research Organization: Annual report 1951, 1952. ?1952, 88 p., 1 tab.

Kenya Department of Agriculture: annual report 1950, vol I. 1952, 38 p.

e. Australien und Südsee
Australia and South-Sea
Australie et Mer du Sud

New Zealand: Annual report Cawthron Institute, Nelson, 1951—52. ?1952, 42 p.

New Zealand Forest Service: Annual report of the Forest Research Institute for the year ended 31st March, 1952. New Zealand Forest Res. Notes 1. 1952, nr. 5, p. 1—136.

3. Bibliographien
Bibliographies — Bibliographies

Chamberlin, W. J., Entomological nomenclature and literature. W. C. Brown Comp., Inc., Dubuque (Iowa) 1952. 3., rev. ed., VII + 141 p.

Chanasyk, V., Theoretical studies in hardiness research. Rept. Proc. 8th Ann. Meetg. west. canad. Soc. Hortic. 1952, 37—40.

Hawes, I. L., and **Wade, J. S.,** A selected list of publications. US Dept. Agric. Yearb. Agric. 1952, 732—737.

Koster, G., Recent publications on agriculture in the Netherlands and overseas. 1, 2. Landbouwkdg. Tijdschr. 63. 1951, 24 p.; 64. 1952, 20 p.

Lebedew, D. W., (Bibliographie der sowjetischen botanischen Literatur.) 11—14. [u. a. Pflanzenkrankheiten u. Schädlinge] (Bot. J. Akad. Wiss. USSR.), Moskau u. Leningrad, 37. 1952, 83—93, 266—278, 397—411, 558—569.

Moore, A. E., Bibliography of forest disease research in the Department of Agriculture. Misc. Publ. US Dept. Agric. 725. 1957, 186 p.

Pisarska, M., Bibliografia polskiego pismiennictwa lesnego. (Polnische forstliche Bibliographie. Von 1945—1949.) Panstw. wydawn. roln., lesne, Warszawa 1951. 116 p.

Riemschneider, R., und **Schölzel, E.,** Literatur zur HCH- und Dien-Gruppe. Liste III. Ztschr. angew. Ent. 33. 1952, 481—512, 600—649; 34, 1952, 101—144.

Stevenson, J. A., Getting at the »meat« of plant pathological literature. Plant Dis. Reptr. 36. 1952, 491—492.

Bibliographie des ausländischen forst- und holzwirtschaftlichen Schrifttums. Folge 4. F. Haller, Berlin-Grunewald 1952. 214 S. (Mitt. Bundesanst. Forst-, Holzw. Nr. 27).

Bibliography of weed investigations. (Quarterly.) Beltsville 1952.

4. Biographien
Biographies — Biographies

Alexander, Ch. P., Henry Torsey Fernald. J. econ. Ent. 45. 1952, 1111—1112, 1 fig.

Bailey, D. L., Herbert Spencer Jackson, 1883—1951. Phytopathology 42. 1952, 406, 1 fig.

Baker, A. W., Lawson Caesar, 1870—1952. J. econ. Ent. 45. 1952, 1113—1114, 1 fig.

Benlloch, M., y **Del Cañizo, J.,** In memoriam Federico Gómez Clemente (1888—1952). Bol. Pat. veg., Ent. agríc., Madrid, 19. 1951—52, 299—306, 1 fig.

Brandenburg, E., Professor Dr. Johanna Westerdijk. Nachr.bl. dtsch. Pfl.schutzd., Braunschweig, 4. 1952, 176, 1 Abb.

Dowson, W. J., Professor F. T. Brooks. Ann. appl. Biol. 39. 1952, 617—619.

Fleming, W. E., **Allen, H. W.,** and **Poos, F. W.,** Traber Norman Dobbins, 1896—1952. J. econ. Ent. 45. 1952, 903.

Grütz, O., und **Pickarski, G.,** Prof. Dr. Albrecht Hase, Berlin, zum 70. Geburtstage, 16. 3. 1952. — Lebenslauf. Ztschr. Parasitenkunde 15. 1952, H. 4, S. I—IV.

Güssow, H. T., Otto Appel 1867—1952. Proc. canad. phytopath. Soc. nr. 20. 1952, 4—5.

Houghland, G. V. C., In memoriam Bailey Edgar Brown, November 10, 1879 — March 9, 1951. Amer. Potato J. 29. 1952, 75.

Kemper, H., Albrecht Hase 70 Jahre alt. Schädlingsbekämpfung 44. 1952, 43, 1 Abb.

Kluyver, A. J., Hendrik Christoffel Jacobsen 1882—1952. Antonie van Leeuwenhoek, J. Microbiol., Serol., 18. 1952, 167—170, 1 fig.

Kozlowski, T. T., Oran Cecil Boyd, 1894—1952. Phytopathology 42. 1952, 405, 1 fig.

Kunkel, L. O., William Crocker (1874—1950). Amer. phil. Soc. Year Book 1950. 1951, 277—280.

Marshall, J. T., Great improvers in agriculture. [great names in the history of British agriculture] Agriculture, J. Minist. Agric., London, 58. 1952, 543—545.

Mehta, P. R., B. B. Mundkur (1896—1952). Indian Phytopath. 5. 1952, 1—2.

Morstatt, H., Emil Werth zum 80. Geburtstag. Forsch. u. Fortschr. 25. 1949, 189—190.

Rehfous, M., Jean Romieux, entomologiste, 1893—1951. Mitt. schweiz. ent. Ges. 25. 1952, 56, 1 Abb.

Rogers, C. H., George James Wilds, Jr. 1889—1951. Phytopathology 42. 1952, 485, 1 fig.

Scamoni, Professor Dr. Johannes Liese †. Arch. Forstwesen. 1. 1952, 173—181.

Smith, H. S., Boyce, A. M., and **Batchelor, L. D.,** Henry Josef Quayle, 1876—1851. J. econ. Ent. 45. 1952, 559, 1 fig.

Sollers, H., Entomologists in Washington. U. S. Dept. Agric. Yearb. Agric. 1952, 462—468.

Ten Houten, J. G., Prof. Dr. Johanna Westerdijk: Ter inleiding. Tijdschr. Plantenziekten 58. 1952, 199, 1 fig.

Walcott, G., Melville Thurston Cook, Sept. 20, 1869 — Aug. 11, 1952. J. econ. Ent. 45. 1952, 1112—1113.

Zwölfer, W., Karl Escherich zum 80. Geburtstag. Ztschr. angew. Ent. 33. 1952, 1—5, 1 Abb.

William Esco **Anderson,** August 26, 1892 — April 18, 1952. J. econ. Ent. 45. 1952, 560, 1 fig.

Otto **Appel** 85 Jahre. Nachr.bl. dtsch. Pfl.schutzd., Braunschweig, 4. 1952, 65—66.

Geheimrat **Appel** 85 Jahre alt. Anz. Schädl.kunde 25. 1952, 92, 1 Abb.

Geheimrat **Appel** gestorben. Anz. Schädl.kunde 25. 1952, 189.

Prof. Dr. A. **Boerger** 70 Jahre alt. Anz. Schädl.kunde 25. 1952, 13—14.

Dem siebzigjährigen Albrecht **Hase.** Anz. Schädl.kunde 25. 1952, 47, 1 Abb.

Prof. Dr. Friedrich **Merkenschlager** 60 Jahre alt. Anz. Schädl.kunde 25. 1952, 189—190.

Oberregierungsrat Prof. Dr. Hermann **Morstatt** 75 Jahre alt. Anz. Schädl.kunde 25. 1952, 154, 1 Abb.

J. R. **Parker** honored. J. econ. Ent. 45. 1952, 1123, 1 fig.

Eduard **Riehm** 70 Jahre alt. Schädlingsbekämpfung 44. 1952, 44.

Präsident a. D. Dr. Eduard **Riehm** 70 Jahre alt. Anz. Schädl.kunde 25. 1952, 30—31.

Prof. Dr. Uunio **Saalas** 70 Jahre alt. Anz. Schädl.kunde 25. 1952, 47—48.

Präsident Prof. Dr. Otto **Schlumberger.** Zu seiner Emeritierung! Nachr.bl. dtsch. Pfl.schutzd., Berlin, NF. 6. 1952, 141—144, 1 Abb.

Hofrat Dr. Bruno **Wahl** 75 Jahre alt. Anz. Schädl.kunde 25. 1952, 14.

II. Krankheiten und Ursachen
Diseases and causes — Maladies et leurs causes

1. Allgemeine Krankheitslehre
General pathology — Pathologie générale

Hollis, J. P., On the origin of diseases in plants. Plant. Dis. Reptr. 36. 1952, 219—227, 1 fig.

Mayer, K., Problemstellungen der Epidemiologie in historischer Sicht. Nachr.bl. dtsch. Pfl.schutzd., Berlin, NF. 6. 1952, 212—216.

Paddock, W. C., The new frontier for plant pathology. Plant Dis. Reptr. 36. 1952, 370—372.

a. Pathologische Pflanzenanatomie, Gallen, Teratologie
Pathological anatomy of plants, galls, teratology
Anatomie pathologique des plantes, galles, tératologie

(Siehe auch — see also — voyez aussi p. 18.)

Behr, L., Über die Blütengalle des Teucrium chamaedrys L. [Copium teucrii, C. cornutum] Ber. dtsch. bot. Ges. 65. 1952, 326—330, 6 Abb.

Boysen-Jensen, P., Untersuchungen über die Bildung der Galle von Mikiola fagi. Biol. Meddel. danske Vidensk. Selskab., København, 18. 1952, nr. 18, 18 p., 8 fig.

Braun, A. C., Conditioning of the host cell as a factor in the transformation process in crown gall. Growth 16. 1952, 65—74.

Braun, A. C., The crown gall disease. Ann. New York Acad. Sci. 54. 1952, 1153—1161.

De Capite, L., Action du paraaminopnénylsulfamide et de l'acide paraaminobenzoïque sur le parenchyme vasculaire de topinambour et sur les tissus de crown-gall de scorsonère cultivés in vitro. Compt. rend. Acad. Sci., Paris, 234. 1952, 2478—2480.

Frederick, L., and **Locke, S. B.,** Growth variation of bacteria-free crown -gall tumor tissue. Phytopathology 42. 1952, 514 (Abstr.).

Frei, M., Pflanzengallen. Ihre Formen und ihre Erreger. Prisma 6. 1951/52, 167—171, 9 Abb.

Goris, A., Influence de l'éclairement sur la teneur en fructose de diverses souches de tissus de carotte et de crown-gall de vigne cultivées in vitro. Bull. Soc. Chim. biol., Paris, 34. 1952, 527—531.

Harrison, J. H., A reconsideration of plant teratology. Phyton, Horn (Österr.) 4. 1952, 19—34.

Jenkins, P. T., Crown gall on plants. [Agrobacterium tumefaciens] J. Dept. Agric. Victoria 50. 1952, 87—88.

Klein, R. M., Nitrogen and phosphorus fractions, respiration, and structure of normal and crown gall tissue of tomato. Plant Physiol., Lancaster, 27. 1952, 335—354.

Klein, R M., and **Link, G. K. K.,** Studies on the metabolism of plant neoplasms. V. Auxin as a promoting agent in the transformation of normal to crown-gall tumor cells. Proc. nat. Acad. Sci., Washington, 38. 1952. 1066—1072.

Lamb, K. P., Plant galls. New Zealand R. Soc. Sci. Congr. Rept. 1951. 1952, 49—52.

Lance, C., et **Gautheret, R.,** Sur la pérennité des propriétés tumorales des tissus de crown-gall et des tissus ayant subi le phénomène d'accoutumance aux aucines. Compt. rend. Acad. Sci., Paris, 235. 1952, 1682—1684.

Leatherdale, D., Zoocecidia: The need for correlated study. Trans. IXth int. Congr. Ent., Amsterdam, 1 (1951). 1952, 514—518.

Lioret, C., Action du »lait de coco« sur les échanges gazeux respiratoires de tissus de crown-gall de scorsonère (Scorzonera hispancia L.) cultivés in vitro. Compt. rend. Acad. Sci., Paris, 234. 1952, 648—650.

Manil, P., et **Straszewska, Z.,** Action de l'aminoptérine (acid 4-amino-ptéroylglutamique) sur les tumeurs du crown-gall. Rev. belge Path., Bruxelles, 22. 1952, 96—99.

Niblett, M., Plant galls in Surrey 1951. London Naturalist 31. 1952, 30—32.

Nitsch, J. P., Action du jus de tomate sur la croissance des tissus de crown-gall cultivés in vitro. Ann. agron., Paris, 3. 1952, 533—534.

Stalder, L., Über Dispositionsverschiebungen bei der Bildung von Wurzelknöllchen. Phytopath. Ztschr. 18. 1952, 376—403, 8 Abb.

Waggoner, P. E., and Dimond, A. E., Crown gall suppression by ionizing radiation. [Agrobacterium (Bact.) tumefaciens] Amer. J. Bot. 39. 1952, 679—684, 1 fig.

Yamazumi, R., (Anatomical studies on the defoliation in some plants. 2). J. jap. Bot. 27. 1952, 139—142.

b. Pathologische Pflanzenphysiologie
Pathological plant physiology
Physiologie pathologique des plantes

Allen, S. E., and Skoog, F., Stimulation of seedling growth by seed treatments with N-phenyl succinimide derivatives. Plant Physiol., Lancaster, 27. 1952, 179—183.

Ammann, A., Über die Bildung von Zellulase bei pathogenen Mikroorganismen. Phytopath. Ztschr. 18. 1952, 416—446, 6 Abb.

Audus, L. J., and Shipton, M. E., 2, 4-dichloranisole-auxin interactions in root-growth. Physiol. Plantarum, København, 5. 1952, 430—455.

Bald, J. G., Stomatal droplets and the penetration of leaves by plant pathogens. Amer. J. Bot. 39. 1952, 97—99.

Baldacci, E., In merito alla relazione fra le sostanze di crescita e i fenomeni patologici dello sviluppo, nei vegetali. (On the subject of the relation between growth substances and pathological growth phenomena in plants.) Nuovo Giorn. bot. ital. 59 (n. ser.). 1952, 500—503.

Blair, I. D., Parasitism and saprophytism among soil pathogens. New Zealand R. Soc. Sci. Congr. Rept. 1951. 1952, 45—46.

Buhr, H., Betrachtungen über die Wirtskreise von Parasiten. Bestehen zwischen den von oligophagen Cruciferen-Parasiten befallenen Substraten verwandtschaftliche Beziehungen? Ber. dtsch. bot. Ges. 65. 1952, 419—426.

Gäumann, E., Kern, H., und Sauthoff, W., Untersuchungen über zwei Welketoxine. Phytopath. Ztschr. 18. 1952, 404—415, 8 Abb.

Genkel', P. A., and Margolina, K. P., (Determining the capacity of plants to endure the loss of water.) Dokl. Akad. Nauk SSSR 86. 1952, 849—852.

Holmes, F. O., Use of primary lesions to determine relative susceptibility of individual plants. Phytopathology 42. 1952, 113 (Abstr.).

Kobel, H., Untersuchungen über den Einfluß des Kupfers auf die pflanzliche Transpiration. Phytopath. Ztschr. 20. 1952, 39—74, 10 Abb.

Küster, E., Über die Verbänderungen. Ber. dtsch. bot. Ges. 65. 1952, 289—295, 1 Abb.

Küster, E., Zytomorphologische Betrachtungen über Regeneration. Ber. oberhess. Ges. Natur-, Heilkunde Gießen, Naturwiss. Abt., N. F. 25. 1952, 25—50.

Masuyama, J., and Hamada, M., Plant death by heat action. Mem. Coll. Agric. Kyoto Univ. 64. 1952, 10 p.

Pohl, R., Das Wuchsstoff/Hemmstoffproblem der höheren Pflanze. Naturwissenschaften 39. 1952, 1—8.

Prat, H., Histo-physiological gradients and plant organogenesis (Part II). Bot. Rev., Lancaster (Pennsylv.), 17. 1951, 693—746, 24 fig.

Ready, D., et al., Albinism induced by substituted benzoic acids. Plant Physiol., Lancaster, 27. 1952, 210—211.

Rehm, S., Male sterile plants by chemical treatment. Nature, London, 170, 1952, 38—39.

Reusser, P., Über den Einfluß von Patulin auf den Gaswechsel der Hefezellen. Phytopath. Ztschr. 19. 1952, 221—265, 15 Abb.

Schmidt, H. J., Die Bedeutung des Fluors in der Pflanzenphysiologie. Naturwiss. Rundschau 5. 1952, 293—294.

Stapp, C., Können sich Chondriosomen (Zellbestandteile) in Bakterien umwandeln? Umschau 52. 1952, 212—214, 1 Abb.

Szkolnik, M., Root-dip treatment improves plant development. Farm Res. (New York State Stat.) 18. 1952, nr. 3, p. 10.

Trümper, Pflanzenfreundschaften — Pflanzenfeindschaften — Mischwald. Allg. Forstztg., Wien, 7. 1952, 399.

Tukey, H. B., Ticknor, R. L., Hinsvark, O. N., and Wittwer, S. H., Absorption of nutrients by stems and branches of woody plants. Science, Lancaster, 116. 1952, 167—168.

Wenck, U., Die Wirkung von Wuchs- und Hemmstoffen auf die Blattform. Ztschr. Bot. 40. 1952, 33—51.

2. Krankheiten mit verschiedenartigen oder unbekannten Ursachen
Diseases with various or unknown causes
Maladies de cause diverse ou inconnue

Baker, K. F., Seed-borne parasites. Seed World 70. 1952, nr. 11, p. 38, 44, 46—47.

Behr, L., Der Pflanzenkrebs. Mitt. Naturkunde, Vorgeschichte usw., Magdeburg, 3. 1952, 97—108, 6 Abb.

Bolle, F., Anwendung neuer Ergebnisse der botanischen Morphologie auf die Phytopathologie. Nachr.bl. dtsch. Pfl.schutzd., Braunschweig, 4. 1952, 77—78, 2 Abb.

Caffrey, M., The problem of plant disease. Search, London, 1952, nr. 4, p. 18—21.

Crosier, W. F., Detection of seed-borne pests — an international problem. [plant parasites, including bacteria, fungi, insects, nematodes, and viruses] Farm Res. [New York State Stat.] 18. 1952, nr. 4, p. 6.

Davidsson, I., (Plant diseases.) Freyr, Reykjavik, 47. 1952, 207—208.

Evans jr., E. A., Biochemical studies of bacterial viruses. Univ. Chicago Press, Chicago. — Cambridge Univ. Press, London. — W. J. Gage & Co., Ltd., Toronto 1952. VII + 68 p., 6 fig.

Hildebrand, E. M., Terminology in phytopathology. Phytopathology 42. 1952, 283 (Abstr.).

Mir, R. M., Algunos grandes enemigos del agro. [insects and parasitic plants] Cultivador mod., Barcelona, 35. 1952, 163—165.

Potter, C. H., A growers' guide to bedding plants. 5. Pests and diseases, fertilization and feeding, plant bands. Florists' Rev., Chicago, 111. 1952, nr. 2873, p. 17—18, 100—103.

Quanjer, H. M., Varieties of Westerdijks rangschikking der plantenziekten. Tijdschr. Plantenziekten 58. 1952, 224—225.

Raineri, C., (Along the road of scientific research: plant diseases, antibiotics and humus.) Agenzia Romana Note, Inform. agric. 5. 1952, nr. 38, p. 6—7.

Schramm, G., Über den Stand der biochemischen und immunbiologischen Erforschung der Mikroorganismen und Viren. Zentralbl. Bakt., I. Abt., 158. 1952, 130—131.

3. Nichtparasitäre Krankheiten
Diseases not caused by parasites — Maladies non parasitaires

a. Bodenverhältnisse, Düngung
Soil conditions, manuring
Conditions du sol, engrais

Aldrich, D. G., and **Martin, J. P.,** Effect of fumigation on some chemical properties of soils. Soil Sci. 73. 1952, 149—159, 4 fig.

Audus, L. J., Fate of sodium 2, 4-dichlorophenoxyethyl-sulphate in the soil. Nature, London, 170. 1952, 886—887, 1 fig.

Bennett, H. H., Twenty years of conservation progress. US Dept. Agric. Off. Sec., Washington, 1952, 11 p.

Bird, W., History of soil conservation. Montana State Coll. Farmer 5. 1952, nr. 2, p. 11, 20.

Boischot, P., et **Quillon, P.,** Fixation du cuivre dans les sols calcaires. Ann. agron. Paris, 3. 1952, 359—363.

Brannan, C. F., Soil conservation districts today. US Dept. Agric. Off. Sec., Washington, 1952, 14 p.

Bronzowa, G. J., Rolj mnogoletnich traw w sisteme protiwoerosionnych meroprijatii. (Die Rolle der mehrjährigen Gräser im System der Erosionen verhütenden Maßnahmen.) Les i step 4. 1952, 21—24.

Correa, A. A. M., (Damages caused to the farmer by erosion.) Granja, Porto Alegre, 8. 1952, nr. 60/61, p. 56—57.

Correa, A. A. M., (Soil conservation.) Lavoura (Bol. Soc. nac. Agric.), Rio de Janeiro, 56. 1952, 23—26.

Correa, A. A. M., (Soil conservation. VIII. Terracing in the control of erosion. IX. Permanent terracing in the control of erosion. XI. Furrowing for control of erosion. XII. Ditching in the control of erosion.) Seleç. Agric. 7. 1952, nr. 69, p. 57—62, nr. 70, p. 49—50, nr. 72, p. 8, nr. 73, p. 6.

Delamare Deboutteville, C., Sur l'importance de la microfaune du sol en agrobiologie. Trans. IXth int. Congr. Ent., Amsterdam, 1 (1951). 1952, 661—665, 1 fig.

Do L. Canticao, A., (Minor elements in calcareous soils.) Rev. Quím. ind., Rio de Janeiro, 21. 1952, nr. 238, p. 24.

Dole, M. W., The Aspergillus niger method for determining copper in soils. Soil Sci. 73. 1952, 135—147, 5 fig.

Domsch, M., Kranke Böden und ihre Heilung. Eine Anleitung zur Spatendiagnose. Dtsch. Bauernverl., Berlin 1952. 95 S., 79 Abb.

Dreibelbis, F. R., Some relationships of precipitation and soil loss on small agricultural watersheds. J. Soil, Water Conserv. 7. 1952, 113—116, 127.

Forster, W. A., Some effects of metals in excess on crop plants grown in soil culture. IV. Effects of copper on mineral status of crop plants. Ann. Rept. agric., hortic. Res. Stat., Long Ashton (Bristol), 1951. 1952, 102—112.

Francé-Harrar, A., Neues vom Kampf gegen die Bodenverwüstung. Schweiz. Ztschr. Forstwesen 103. 1952, 161—162, 1 Abb.

Freckmann, Grundwasserveränderungen und Schadensersatzansprüche. Dtsch. landw. Presse 75. 1952, 217.

Frese, Erosion auch in Deutschland? Landbau-Forsch., Völkenrode, 2. 1952, 60—61.

Garrett, S. D., The soil fungi as a microcosm for ecologists. [biological control of soil fungi by Trichoderma viride] Sci. Progr., London, 40. 1952, 436—450.

Gemmell, G. D., An investigation of the corrosive effects of soils on steel plates. New Zealand J. Sci., Technol. (Sect. B) 33. 1952, 287—298, 4 fig.

Gottlieb, D., The disappearance of antibiotics from soil. Phytopathology 42. 1952, 9 (Abstr.).

Heske, F., Yarıkurak bölgelerde kuraklıkla savaş tetbirleri ve usulleri, milletlerarasında yapılmış olan büyük projeler neticesinde elde edilen tecrübeler. (Versuche infolge großer internationaler Projekte. Kampfmaßnahmen und Methoden gegen die Austrocknung im Yarikurak-Bezirk.) Orman ve Av, Ankara, 24. 1952, 65—67.

Jones, L. W., Stability of DDT and its effect on microbial activities. [DDT in Böden] Soil Sci. 73. 1952, 237—242.

Kämpf, R., und Wagner, M., Untersuchungen über den Einfluß von Pflanzenschutzmitteln auf die Bodenkrümelung. Ztschr. Pfl.bau, -schutz 3. 1952, 247—253, 4 Abb.

Kaspirow, A. I., Die Bekämpfung der Bodenverkrustung. Dtsch. Bauernverl., Berlin 1952. 87 S., 5 Abb.

Kisser, J., Zum Problem der Spurenelemente. Bodenkultur, Wien, 6. 1952, 106—110.

Kittredge, J., Deterioration of site quality by erosion. J. Forestry 50. 1952, 554—556, 1 fig.

Klauß, D., Die Bedeutung der Düngemittel für den Pflanzenschutz. Saarländ. Bauernbl. 6. 1952, 11—12.

Kurtz, J., Über Dünger und Düngung. Saarländ. Bauernbl. 6. 1952, 1—2.

Lochhead, A. G., Soil microbiology. Ann. Rev. Microbiol. 6. 1952, 185—206.

Martin, J. P., and Ervin, J. O., Effect of fumigation on soil organisms. Calif. Citrogr. 38. 1952, 6, 17—18. — Citrus Leaves 32. 1952, nr. 11, p. 14—15.

Martin, N., and Gottlieb, D., The production and role of antibiotics in the soil. III. Terramycin and aureomycin. Phytopathology 42. 1952, 294—296.

Nagels, W., (Minimum amount of magnesium; (an investigation originating at the test field at Venlo). I. II.) Groenten en Fruit 7. 1952, 811, 883.

Plateau, H., La défense et la restauration des sols. Terre maroc. 26. 1952, 267—272.

Postma, H., (Possible reason for the disease symptoms of various plants on acid, iron containing soils in the vicinity of the Overijssel Vecht.) Maandbl. Landbouwvorl.dienst, 's-Gravenhage, 9. 1952, 275—276.

Ramakrishnan, T. S., Manures and their effects on incidence of disease in crops. Madras agric. J. 39. 1952, 96—103.

Saitô, T., The soil fungi of a salt marsh and its neighbourhood. [Penicillium, Trichoderma, Fusarium, Mucor] Ecol. Rev. (jap.) 13. 1952, 111—119.

Sekera, F., Gesunder und kranker Boden. Ein praktischer Wegweiser zur Gesunderhaltung des Ackers. P. Parey, Berlin 1951. 3., neubearb. Aufl., V + 90 S., 39 Abb.

Smith, D. D., A 20-year appraisal of engineering practices in soil and water conservation. Agric. Engin. 33. 1952, 553—556.

Suárez de Castro, F., Las acequias de ladera en el control de la erosion. (Lateral drainage channels in the control of erosion.) Agric. trop. (Colombia) 8. 1952, nr. 7, p. 9—15.

Sulochana, C. B., Soil conditions and root diseases: IV. The effect of microelements on the occurrence of bacteria, actinomycetes and fungi in soils. Proc. indian Acad. Sci. (Sect. B) 36. 1952, 19—33.

Swanson, C. L. W., A new concept. — Using chemicals for soil structure improvement. J. Soil, Water Conserv. 7. 1952, 61—67.

Tempany, H., Le probleme de l'erosion et ses remèdes. Rev. colon. belge 7. 1952, 125—126.

Tolner, J., (Minor elements in agriculture. II.) Nieuwe Veldbode (Nederland) 18. 1952, 526—527.

Tolner, J., (Trace elements in agriculture. III., IV—V.) [in plant nutrition and as fertilizers] Nieuwe Veldbode (Nederland) 18. 1952, 546—547, 562—563, 577—578.

Uhland, R. E., Our work is based on facts. Soil Conserv., Washington, 18. 1952, 106—110, 112.

Waksman, S. A., Soil microbiology. J. Wiley & Sons, Inc., New York, — Chapman & Hall, Ltd., London 1952. VII + 356 p., 130 fig.

Weeks, L. E., and **Colter, W. G.,** Effect of synthetic soil conditioners on erosion control. Soil Sci. 73. 1952, 473—484, 12 fig.

Wilcke, D. E., Zur »Domestikation« des »Soilution-Earthworm«. Anz. Schädl.kunde 25. 1952, 107—109, 1 Abb.

Wiltshire, G. R., A soil conservation district programme. New South Wales Soil Conserv. Serv. 8. 1952, 141—148.

Winsor, H. W., Penetration and loss of heavy applications of borax in Florida mineral soils. Soil Sci. 74. 1952, 459—466.

The conservation yearbook 1952. [includes data on soil and forest conservation] Washington, D. C. 1952. 288 p.

The crumb structure of soils. Int. Sugar J., Manchester, 54. 1952, 60—61, 64.

Fruchtbarkeit unserer Böden in Gefahr, darum Landschaftsbau und Landschaftspflege. AID 1953, Nr. 62, 16 S., 42 Abb.

b. Mangelkrankheiten
Deficiency diseases
Maladies provoquées par manque de nourriture

Anerud, K., Några viktiga bristsjukdomar. (Some important deficiency diseases.) [boron deficiency of beet, manganese deficiency of oats and potato, and copper deficiency of oats] Forskn., Fors. Landbr. Res. norw. Agric.), Oslo, 9. 1952, nr. 8—9, p. 64—65, 4 fig.

Askew, H. O., Boron deficiency in the Nelson district. New Zealand R. Soc, Sci. Congr. Rept. 1951. 1952, 233.

Baumgartner, A., Rückwirkungen von Landeskulturmaßnahmen auf Niederschlag und Verdunstung in Trockenzeiten. Allg. Forstztschr. 7. 1952, 245—248, 5 Abb.

Brown, J. C., and **Hendricks, S. B.,** Enzymatic activities as indications of copper and iron deficiencies in plants. Plant Physiol., Lancaster, 27. 1952, 651—660.

Brüne, F., Zum Kupfermangel auf Hochmoor- und Heidesandböden. Landw.bl. Weser-Ems 99. 1952, 416—417.

Buchner, A., Betrachtungen über die Spurenelemente — Bilanz und Spurenelement — Düngung unserer Böden. Mitt. dtsch. Landw.-Ges., Berlin, 67. 1952, 275—277.

Buchwald, N. F., (Fysiogene sygdomme hos landbrugsplanterne. II. Speciel del mangelsygdomme.) Kungl. Vet.højsk., København 1952. 40 p.

Čeljadinowa, A. J., und **Naumowa, A. N.,** Die Krankheit der Sichelmöhre (Falcaria sivini) bei Störung der Symbiose mit der Wurzelmikroflora. Dokl. Vsesoiuzn. Akad. Sel'skohoz Nauk im. V. I. Lenina (Proc. Lenin Acad. agric. Sci.) 18. 1952, H. 11, S. 29—33.

Driskell, B. N., and **Richer, A. C.,** Correlation of plant tissue tests of corn, deficiency symptoms, and soil analyses on the Jordan fertility plots. Proc. Soil Sci. Soc. Amer. 16. 1952, 270 (Abstr.).

Duggen, H., Molybdän als Spurenelement. Gartenwelt 52. 1952, 12.

Fischer, H., Pflanzenkrankheiten durch Spurenelementmangel. Gartenwelt 52. 1952, 143—145, 1 Abb.

Fischer, R., Ursachen und Bekämpfung der Gelblaubigkeit (Chlorose). Pflanzenarzt, Wien, 5. 1952, Nr. 6, S. 2—4.

Gilbert, F. A., Copper in nutrition. Advances Agron., New York, 4. 1952, 147—177.

Grote, R., Klarheit über Spurenelemente. Dtsch. landw. Presse 75. 1952, 211.

Hagin, J., The active lime content of soil as a factor in the development of chlorosis. Israel Res. Council. 2. 1952, 138—146.

Hauptfleisch, K., Ertragssteigerungsversuche auf Kupfermangelböden. Höfchen-Briefe, Leverkusen, 5. 1952, 58—62.

Hewitt, E. J., Molybdenum as a plant nutrient. III. The effects of molybdenum deficiency on potato, carrot, radish and some other crops. Ann. Rept. agric., hortic. Res. Stat., Long Ashton (Bristol), 1951. 1952, 54—57.

Hewitt, E. J., and **Bolle-Jones, E. W.,** Molybdenum as a plant nutrient. I. The influence of molybdenum on the growth of some Brassica crops in sand culture. II. The effects of molybdenum deficiency on some horticultural and agricultural crop plants in sand culture. J. hortic. Sci., London, 27. 1952, 245—256, 257—265, 5 tab.

Hoffmann, W., Die Heidemoorkrankheit und die Wirkung des Kupfers als Spurenelement, im besonderen nach den Erkenntnissen der Staatl. Moorversuchsstation Bremen. Landw. Forsch., Darmstadt, 4. 1952, 39—45.

Hopfengart, M., Krankheitsanfälligkeit und Pflanzenernährung. Landw. Wochenbl., München, 142. 1952, 7, 47.

Iljin, W. S., Metabolism of plants affected with lime-induced (calciose). III. Mineral elements. Plant and Soil, The Hague, 4. 1952, 11—28.

Knoop, F., Testing plants for mineral deficiencies. Poona agric. Coll. Mag. 43. 1952, 30—31.

Krusen, F., Die Bedeutung der Spurenelemente für die Pflanzenernährung. Zentralbl. dtsch. Erwerbsgartenbau 4. 1952, Nr. 30, S. 3.

Lampe, C. H., Mangan-Mangelerscheinungen. Landw. Wochenbl. Westf., Lippe 109 A. 1952, 1994—1995.

Lundblad, K., (Minor elements and garden plants.) Trägårdstidningen, Jönkoping, 24. 1952, nr. 4, p. 7—9.

Lundblad, K., (Potash deficiencies of agricultural crops.) Växt-Närings-Nytt (swed.) 8. 1952, 7—10.

McLachlan, K. D., The occurence of sulphur deficiency on a soil of adequate phosphorus status. Austr. J. agric. Res. 3. 1952, 125—127.

McMurtrey jr., J. E., Deficiencies of secondary and micro-nutrient elements in plants. Better Crops, New York, 36. 1952, nr. 9, p. 19—26, 42—48.

McVickar, M. H., Phosphorus deficiencies in plants. Comm. Fertil., Atlanta, 84. 1952, nr. 5, p. 26, 28.

Mannes, Was leistet Dynamal? Hannov. land- u. forstw. Ztg. 105. 1952, 255.

Mulder, E. G., and Gerretsen, F. C., Soil manganese in relation to plant growth. Advances Agron., New York. 4. 1952, 222—277.

Pamir, H., ve Şişli, N., »Chlorose« üzerinde ilâç denemeleri. Bitki Koruma Bült. (Bull. Plant Prot.), Ankara, 1952, nr. 4, p. 44—45.

Pietschmann, E., Mangelkrankheiten. Hannov. land-, forstw. Ztg. 105. 1952, 473—474.

Pilaski, Auch Spurenelemente geben. Kleine Mengen — große Wirkung. Bauernbl. Schlesw.-Holst. 6./102. 1952, 582.

Postma, H., De mogelijke oorzaak van ziekteverschijnselen bij verschillende gewassen op zure, sterk ijzerhoudende gronden in de buurt van de Overijselse Vecht. Voorloopige mededeling. (The possible cause of the pathological symptoms in various crops on acid soils with a very high iron content in the vicinity of the Overijselse Vecht. Preliminary note.) Maandbl. Landbouwvoorl.dienst, 's-Gravenhage, 9. 1952, 275—276.

Purvis, E. R., Magnesium deficiency in New Jersey vegetable crops. New Jersey State hortic. Soc. News 33. 1952, 2540—2541.

Rademacher, B., Mangan und Manganmangel in Böden und Pflanzen. Phosphorsäure, Berlin, 12. 1952, 193—208, 5 Abb.

Ramsfjell, T., (Symptoms and remedies for deficiency diseases of garden plants.) Minneliste Hagedyrkere Norske Hageselskap 1952, 3—4.

Reinhardt, F., Alarmierende Kalkarmut unserer leichten Böden. Kartoffelbau, Hamburg, 3. 1952, 6.

Riceman, D. S., Minor element deficiencies and their correction. Int. Grassland Conf. Abstr. Pap. 6 (E). 1952, 22—23.

Roach, W. A., Biochemistry. East Malling Res. Stat. Ann. Rept. 39 (1951). 1952, 37—39.

Schenk, P. J., (Deficiency and nutritive diseases.) Cult. en Handel 18. 1952, 32—35.

Schipstra, K., Ziekteverschijnselen bij verschillende gewassen op ijzerhoudende beekgronden. (Pathological symptoms in various crops on iron-containing brook soils.) Maandbl. Landbouwvoorl.dienst, 's-Gravenhage, 9. 1952, 271—274, 2 fig.

Schropp, W., Beiträge zur Morphologie der Kulturpflanzen bei Phosphormangel. Phosphorsäure, Berlin, 12. 1952, 148—177.

Schultze, W., Warum Spurenelemente? Bad. landw. Wochenbl. 119. 1952, 365—366, 597—599.

Stapel, C., (Do our crops suffer from an increasing boron deficiency?) Dansk Landbrug, Aarhus, 71. 1952, 582—584.

Stewart, I., and Leonard, C. D., Chelates as sources of iron for plants growing in the field. Science, Lancaster, 116. 1952, 564—566, 1 fig.

Svanberg, O., et Ekman, P., Analyse du sol et du fumier et besoins en engrais magnésiens. Compt. rend. Acad. Agric. France 39. 1952, 548—552.

Sweetser, G. A., Can you read the signs? [mineral deficiencies] Amer. Rose Mag. 10. 1952, nr. 5, p. 7—8.

Tedin, O., och Gelin, O. E. V., Kombinerade sort- och mangangödslingsförsök i havre och potatis. (Manganese fertilizer trials with oat and potato varieties.) J. R. swedish Acad. Agric. 91. 1952, 158—178.

Timonin, M. I., and Giles, G. R., Effect of different soil treatments on microbial activity and availability of manganese in manganese deficient soil. Soil Sci. 3. 1952, 145—155.

Valantin, G., Bessuand, J., et Estienne, A., Méthodes analytiques appliquées au diagnostic foliaire. Oléagineux, Paris, 7. 1952, 363—365.

Viel, G., Hascoet, M., et Duclos, M., Semi-microméthode par molybdomanganimétrie pour le dosage des dépots laissés sur les végétaux par les composés zinciques. Ann. Épiphyties, Paris, 3. 1952, 273—280.

c. Klimatische Einflüsse
Climatic influences
Influence du climat

Bachruschin, G. S., Sosdanie snegosaschtschitnych polos s utschastijem jeli w lesostepnych rajonach omskoj oblasti. (Anlage von schneeschützenden Waldstreifen zum Teil mit Fichte in den Waldsteppenrayons des Gebiets Omsk.) Lesn. chosjaistwo 5. 1952, 51—52.

Beresowskij, N. J., Polesaschtschitnyje lesonasashdenija w sowchosach Rostowskoj oblasti. (Feldschützende Waldanpflanzungen in den Sowchosen des Gebiets Rostow.) Les i step 4. 1952, 50—55.

Blanck, A., Principaux caractères climatiques de la saison 1951—1952. Réveil Agric. (France) 61. 1952, 354—356.

Böer, W., Witterung und Pflanzenwachstum (unter Benutzung langjähriger phänologischer Beobachtungen aus Thüringen). Akademie-Verl., Berlin 1952. 63 S., 12 Abb., 41 Tab. (Abh. meteorol., hydrol. Dienst. dtsch. demokr. Republ. Nr. 14, Bd. II.)

Brganina, F. G., Polesaschtschitnoe lesoraswedenie w kolchosach Salskogo rajona. (Feldschützender Waldanbau in den Kolchosen des Salsker Rayons.) Les i step 4. 1952, 56—63.

Brison, F. R., Story of a historic freeze. Progr. Farmer (Texas Ed.) 67. 1952, nr. 2, p. 26, 133.

Brooks, F. A., The action of wind machines and heaters used for frost protection on calm clear nights. Proc. 48th Ann. Meetg. Washington State hortic. Assoc. 1952, 193—198.

Bruhn, Der Witterungsverlauf 1951. Mitt. Mitgl. Obstbauvers.ring Altes Land, Jork, 7. 1952, 5—8.

Carl, A., Verbesserung des bodennahen Klimas und Frostschutz durch Beregnung. Ber. dtsch. Wetterd. US-Zone 1952, H. 72, S. 78—82.

Carlson, N. K., Young Hawaiians show how to cope with Kona storms. Soil Conserv., Washington, 17. 1952, 183—185.

Cruz, S. R., and **Mendoza, T. M.,** Agricultural meteorology: Philippine rainfall. Philipp. J. Agric. 15. 1952, 281—295.

Decker, W. L., Hail-damage frequency distributions for Iowa, and a method of evaluating the probability of a specified amount of hail damage. Trans. amer. geophys. Un. 33. 1952, 204—210.

Dessens, M. H., Étude de quelques tentatives pour provoquer la pluie ou éviter la grêle. Compt. rend. Soc. Sci. nat., phys. Maroc 1952, nr. 3, p. 71—72.

Detela, L., Kako preživljajo naše rastline zimo. (Wie überwintern unsere Pflanzen.) Gozdarski Vijesnik, Ljubljana, 10. 1952, 80—84.

Dillmann, E., Automatischer Auslöser für Frostschutz. Zentralbl. dtsch. Erwerbsgartenbau 4. 1952, Nr. 18, S. 3.

Ehrenberg, P., Die Folgen der großen Dürre für den Bauern und Versuche zu ihrer Abwendung. Saat u. Ernte, Mannheim, 3. 1948, Nr. 4.

Ehrenberg, P., und **Buchner, A.,** Selbsthilfe gegen die Folgen der diesjährigen Sommerdürre. Landw. Wochenbl., München, 139. 1949, 648, 666.

Evans, E. F., Climate and agriculture. Southwest. Crop, Stock 6. 1952, nr. 7, p. 90—91, 94.

Florow, D. N., Über die zoogeographische Bedeutung des Dauerfrostbodens (Maikäfer in Ost-Sibirien). Zool. Žh. (Zool. J.) 31. 1952, 875—882.

Florowskij, A. M., Dub, jasenj i gleditschija w polesaschtschitnych polosach na juge Ukrainy. (Eiche, Esche und Gleditschie in den feldschützenden Waldstreifen im Süden der Ukraine.) Lesn. chosjaistwo 5. 1952, 34—38.

Fors Diaz, A. L., Observaciones sobre los efectos del ciclón del 24 de octubre de 1952. Bol. ofic. Asoc. Técn. azuc. Cuba, Habana, 11. 1952, 441—448.

Franken, E., Der Schadenfrost vom 20. und 21. Mai 1952 in Nordwestdeutschland. Kartoffelbau, Hamburg, 3. 1952, 180—181, 1 Kart.

Gagarin, E., Holzanbau zum Schutz der Felder in Rußland. Forstwiss. Centralbl. 68. 1949, 571—602, 8 Abb.

Gard, W., When drougth hit the frontier. [drought in Texas] Progr. Farmer (Texas Ed.) 67. 1952, nr. 8, p. 18, 90.

Gegenwart, W., Die ergiebigen Stark- und Dauerregen im Rhein-Main-Gebiet und die Gefährdung der landwirtschaftlichen Nutzflächen durch die Bodenzerstörung. Rhein-Main. Forsch. 36. 1952, 52.

Genkel', P. A., (Starch test as one of the methods of determining drought resistance of plants.) Dokl. Akad. Nauk SSSR 86. 1952, 1049—1052.

Gilch, A., Gegen Auswinterungsschäden. Dtsch. landw. Presse 72. 1949, Nr. 39, S. 2.

Ginnasi, G., (The cypress on the Imolese Pliocene.) [planting and use as windbreaks] Monti e Boschi, Firenze, 3. 1952, 413—419.

Globa-Michajlenko, D. A., (Peculiarities of frost injuries to subtropical plants). Lesn. Khoz. 5. 1952, nr. 6, p. 72—75.

Gómez Clemente, F., Defensa de las plantaciones de agrios contra el viento. Bol. Pat. veg., Ent. agríc., Madrid, 19. 1951—52, 49—57, 12 fig.

Herran, K., Lebende Schutzanlagen nach der Naturbaumethode. Allg. forst-, holzw. Ztg., Wien, 60. 1949, 45—47.

Hönl, Die Hagel- und Überschwemmungsschäden in Württemberg-Baden 1951. Statist. Monatsh. Württemberg-Baden 6. 1952, 98—99.

Hoffmeister, J., Windschutz durch Wald. Forstw. — Holzw., Berlin, 2. 1948, 227—229.

Hopkins, H. H., Wind injury to trees at Hays, Kansas. Trans. Kansas Acad. Sci. 55. 1952, 98—100.

Jelitto, C. R., Mehr Überlegung beim Winterschutz! Land, Wald, Garten 3. 1948, 279—280.

Jensen, C. F., (The hurricane on February 11, 1952.) Dansk Skovforen. Tidsskr. 37. 1952, 291—298.

Kaempfert, W., Frostschadenverhütung durch künstliche Beregnung. Süddtsch. Erw.gärtner 2. 1948, 6.

Kern, H., Kalendergebundene Frostgefährdung süddeutscher Moorgebiete. Landw. Jahrb. Bayern 29. 1952, 40—46, 2 Abb.

Kind, Wie schützen wir unsere Kulturen vor Nachtfrösten? Mitt.bl. Landesverb. Gartenbau, Landw. Berlin 2. 1952, 112.

Knoth, K. E., Vermehrte Pflanzenschäden. Folge örtlicher Klimaänderungen? Anz. Schädl.kunde 22. 1949, 149—151.

Koeppner, R., Tegtmeyer's Verfahren gegen Spät- und Frühfrost. Dtsch. Garten 60. 1949, H. 8, S. 1—2.

Kotscherga, F. K., Saschtschitnoe lesoraswedenie w sone glawnogo Turkmenskogo kanala. (Anbau von Waldschutzstreifen in der Zone des turkmenischen Hauptkanals.) Les i Step' 4. 1952, 10—20.

Kragh, G., Schutz gegen Sandverwehungen. Dtsch. landw. Presse 71. 1948, Nr. 4, S. 4.

Kreutz, W., Der Windschutz. Windschutzmethodik, Klima und Bodenertrag. Ardey Verl., Dortmund 1952. 167 S., 47 Abb., 19 Taf.

Lauenstein, A., Windschutz, ein Mittel zur Steigerung der Erträge. Zentralbl. dtsch. Erwerbsgartenbau 4. 1952, Nr. 2, S. 6.

Lessmann, H., Frostwarnung und Frostschutz. Ber. dtsch. Wetterdienst US-Zone 32. 1952, 84.

Levitt, Ph. D., Frost killing and hardiness of plants. Critical Rev. Minneapolis 15. 1952.

Loewel, E. L., Das Frühjahr 1952 und die Frostschäden im Niederelbegebiet. Mitt. Obstbauvers.ring Altes Land, Jork, 7. 1952, 102—115.

Malinowski, Schutzwaldstreifen als Kampfmittel gegen die Dürre. Forstw. — Holzw., Berlin, 2. 1948, 369—374.

Margolin, A. F., Frost resistance of dwarf tree rootstocks. Sad i Ogorod (Orchard and Garden) 2. 1952, 23.

Maseroli, (An efficient method of hail control.) Avvenire agric., Milano, 60. 1952, 227.

Mehring, J., Vor Frost geschützt. Land u. Frau. 32. 1952, 530—531.

Nakashima, H., and **Aoi, I.,** (On the damage of salty-winds caused by typhoon-Marge.) Kyushu Noji Shikenjo 9. 1952, 105—106.

Nikulin, I. A., (Cover crops in nest planting.) [windbreaks] Les i Step' (USSR) 3. 1952, 11—14.

Noell, Die Dürreschäden des Jahres 1952. Besprechung bei Minister Fischer. Landw. Wochenbl. Kurhessen u. Waldeck 167. 1952, 1153.

Olbrich, A., Stetiger Windschutz. Forstwiss. Centralbl. 71. 1952, 254—256.

Olbrich, A., Windschutzpflanzungen. M. & H. Schaper, Hannover 1949. 83 S., 30 Abb.

Olsen, M., (Counteracting drought injuries.) Hedeselsk. Tidsskr., Aarhus, 73. 1952, 275—280.

Ortmeyer, W., Hagelschäden und Hagelverteilung in Sachsen. Versuch einer Auswertung der Angaben von Versicherungsgesellschaften. Angew. Meteorol. 1. 1952, 138—139, 2 farb. Kart.

Pfisterer, E., Dürreschäden werden festgestellt. Bad. landw. Wochenbl. 119. 1952, 729—730, 1 Abb. — Württ. Wochenbl. Landw. 119. 1952, 941—942.

Pisek, A., Zur Kenntnis der Frosthärte alpiner Pflanzen. Naturwissenschaften 39. 1952, 73—78, 5 Abb.

Raimondo, G., (Hail control research and development in Italy.) Rass. econ. (Cam. Com. Ind., Agr. Alessandria) (Italia) 6. 1952, nr. 8, p. 9—10.

Rao, M. B. V., Balasubramaniyan, C., and **Jayaraman, M. V.,** Floods and droughts in Madras State. Indian Farming 2. 1952, 18—19.

Rogers, W. S., Protection from spring and autumn frosts by continuous water sprinkling. East Malling Res. Stat. Ann. Rept. 39 (1951). 1952, 197—198.

Roodenburg, J. W. M., The influence of day-length on the health of plants. Tijdschr. Plantenziekten 58. 1952, 240—242.

Ruby, F., La grêle, étude sur la formation de la grêle et les moyens de s'en deféndre. Flammarion, Paris 1952, 320 p.

Ruby, F., Los nuevos métodos de defensa contra el pedrisco. Rev. Inst. agríc. catalán San Isidro, Barcelona, 101. 1952, 237—244, 267—271, 295—299.

Rufin, C., La défense contre la grêle. Jura agric. (France) 100 (n. ser.). 1952, 1.

Rui, D., (Long range rays for hail control.) Inform. agric, Vicenza, 8. 1952, 169.

Saloni, K., (The application of parabolic curves for determination the influence of rainfall on crop yield.) Roczn. Nauk. roln., Kraków, 62. 1952, 107—139.

Sanmarchi, A., (The various types of snow.) Monti e Boschi, Firenze, 3. 1952, 30—35.

Schneider, A., Anleitung zur Abschätzung von Hagelschäden. Dtsch. Bauernverl., Berlin 1952. 79 S.

Schnelle, F., Aktuelle Probleme der Agrarmeteorologie. Ber. dtsch. Wetterd. US-Zone 32. 1952, 85—90.

Schnelle, F., Klima und Witterung in ihrer Auswirkung auf die Qualität pflanzlicher Erzeugnisse. Landw. Forsch., Darmstadt, 1952, 2. Sonderh., S. 51—60.

Schrödter, H., Zur phytopathologischen Problematik von Windschutzanlagen. Nachr.bl. dtsch. Pfl.schutzd., Berlin, NF. 6. 1952, 91—92.

Selenskij, M. A., Saschtschitnyje polosy wokrug sadow. (Schützende Waldstreifen um Gärten.) Les i Step' 4. 1952, 67—68.

Senkewitsch, A. A., and **Mogilko, N. W.,** (On the river bedforming role of shelterbelt plantations.) Lesn. Khoz. (USSR) 5. 1952, nr. 5, p. 19—23.

Shear, C. B., Zinc deficiency may invite cold injury. Tung World (Mississippi) 7. 1952, nr. 4, p. 11—13.

Smith, L. P., Ice-covered trees give frost protection. Grower 37. 1952, 685, 687, 689.

Steckhan, H., Busch und Baum im Kampf gegen den Sand in Nordwestdeutschland. Allg. Forstztschr. 7. 1952, 251, 254—256.

Sterten, A. K., (»Ice burn« and other overwintering injuries.) Landbrukstidende 58. 1952, 351—352.

Steubing, L., Der Tau und seine Beeinflussung durch Windschutzanlagen. Biol. Zentralbl. 71. 1952, 282—313, 6 Abb.

Suzuki, S., and **Arai, T.,** (Does frost really bring injury to plants? (Preliminary report, 2.)) Agric. Meteorol., Tokyo, 7. 1952, 127—130.

Ure, C. R., Hardiness research problems in prairie Canada. Rept., Proc. 8th Ann. Meetg. west. canad. Soc. Hortic. 1952, 31—36.

Vogel, M., Automatischer Frostschutz-Auslöser. Gartenwelt 52. 1952, 344, 1 Abb.

Weger, N., Brauchbarkeit von Lufttrübungsmitteln zur Frostabwehr. Ber. dtsch. Wetterd. US-Zone 1952, Nr. 32, S. 83.

Wilner, J., The importance of maturity in cold-resistance of certain woody plants grown under various climatic conditions on the prairies. West. canad. Soc. Hortic. Rept., Proc. 8. 1952, 40—47.

Wilner, J., A study of desiccation in relation to winter injury. Sci. Agric., Ottawa, 32. 1952, 651—658.

Winter, G., und Sebastian, Die Verhütung von Frostschäden. Dtsch. landw. Presse 72. 1949, Nr. 15, S. 1—2, 3 Abb.; Nr. 18, S. 5.

Witte, K., Die wirksame Bekämpfung der Maifröste des Jahres 1952 durch Beregnung. Mitt. dtsch. Landw.-Ges., Frankfurt/M., 67. 1952, 437—438.

Les associations syndicales et les problèmes de la lutte contre la grêle et la gelée. Phytoma, Paris, 5. 1952, nr. 35, p. 25—28.

Dürreschäden in der Landwirtschaft. Bad. landw. Wochenbl. 119. 1952, 621—622.

Großversuche zur Bekämpfung des Hagels auf der Magadinoebene. Eidg. Volksw.dept. Bern Tätigk. ber. 1950 (1951), Nr. 3, 98 S.

Neue Methoden zur Verhütung von Nachtfrostschäden. Umschau 52. 1952, 622—623, 5 Abb.

Plants and hard weather. Gard.' Chron., London, 131. (3. ser.). 1952, 45.

Schweizer Frostschutz- und Schattendecken. Gartenwelt 52. 1952, 344—345, 2 Abb.

Wie begegne ich den Auswirkungen des Dürresommers 1952 in meinem Betrieb? Mitt. dtsch. Landw.-Ges., Frankfurt/M., 67. 1952, 939—943, 4 Abb.

d. Physikalische und chemische Einflüsse, Industrieschäden, Schädigung der Pflanzen durch Pflanzenschutzmittel

Physical and chemical influences, industrial damage, damage caused by pest control materials

Influences physiques et chimiques, dégâts causés par l'industrie et des parasiticides

Ashdown, D., and **Cordner, H. B.,** Some effects on insect control and plant response of a systemic insecticide applied as a spray, a seed treatment, or a soil treatment. J. econ. Ent. 45. 1952, 302—307.

Ballczo, H., und **Kaufmann, O.,** Die Bestimmung des Fluorgehaltes von Heuproben aus rauchgasgeschädigtem Gebiet. Mikrochemie, Wien, 39. 1952, S. 9—12.

Beck, H., Über die Wirkung verschiedener neuer Kontaktinsektizide auf das Wachstum der Kressewurzel. Ztschr. Pfl.bau, -schutz 3. 1952, 222—238, 10 Abb.

Bernard, C. J., Influence des produits phytopharmaceutiques sur les équilibres biologiques naturels. [fungicides et insecticides] Relaz. Congr. int. Ind. agric. 9. 1952, nr. 1, p. 215—222.

Bervoets, W. P., De l'effet de l'hexachlorcyclohexane sur le plankton. Hydrobiologia, Den Haag, 4. 1952, 214—219.

Blackman, G. E., Studies in the principles of phytotoxicity. I. The assessment of relative toxicity. J. exp. Bot. 3. 1952, nr. 7, p. 1—27, 10 fig.

Blinks, L. R., Effects of radiation on marine algae. J. Cell., compar. Physiol., Philadelphia, 39 (Suppl. 2). 1952, 11—18.

Blume, J. M., Radiation effects on plants grown in soil treated with fertilizer containing P32. Soil Sci. 73. 1952, 299—303.

Boswell, V. R., Residues, soils, and plants. [agricultural chemicals] US Dept. Agric. Yearb. Agric. 1952, 284—297.

Bretschneider-Herrmann, B., Chloride — nützlich und schädlich. Dtsch. landw. Presse 75. 1952, 159—160.

Carpenter, K., and **Walker, R. D.,** The relative toxicities to plants of amine -salt and ester formulations of 2, 4-dichlorophenoxyacetic acid. J. Sci. Food, Agric., London, 3. 1952, 476—481.

Cox, H. C., and **Lilly, J. H.,** Effects of aldrin and dieldrin on germination and early growth of field crop seeds. J. econ. Ent. 45. 1952, 421—428, 1 fig.

Curtis jr., O. F., and **Rodney, D. R.,** Ethylene injury to nursery trees in cold storage. Proc. amer. Soc. hortic. Sci. 60. 1952, 104—108.

Czech, M., Neuere Untersuchungen über Rauchschäden an landwirtschaftlichen Kulturpflanzen durch Chlor-, Nitrose- und Schwefeldioxydgase. Mitt. Biol. Zentralanst. 1952, H. 74, S. 27—32.

Czech, M., und **Nothdurft, W.,** Untersuchungen über Schädigungen landwirtschaftlicher und gärtnerischer Kulturpflanzen durch Chlor-, Nitrose- und Schwefeldioxydgase. Landw. Forsch., Darmstadt, 4. 1952, 1—36, 35 Abb.

Davison, R. M., Plant injury caused by several types of hormones. New Zealand J. Agric. 85. 1952, 319—320.

Demortier, G., Riga, A., et **Darcheville, M.,** Le »fumier huilé« déprime-t-il les rendements? Bull. Inst. agron., Stat. Rech. Gembloux 20. 1952, p. 43—47.

Dobrowolski, I. A., (Gas resistance of tree and shrub species.) [effect of industrial fumes] Lesn. Khoz. 5. 1952, nr. 4, p. 90—91.

Dubé, J. F., Observations on a chlorophyll-deficient strain of Chlorella vulgaris obtained after treatment with streptomycin. Science, Lancaster, 116. 1952, 278—279.

Egler, F. E., Selective application of selective herbicides in the study of vegetation development. Science, Lancaster, 115. 1952, 98—99.

Ehrenberg, L., Gustafsson, Å., and **Nybom, N.,** Biochemical aspects of the plant injury caused by ionizing radiations. Acta chem. scand., Stockholm, 6. 1952, 1554—1555.

Ehrenhardt, H., Untersuchungen über die Wirkung des Gamma-Hexa auf Kulturpflanzen bei verschiedenen Anwendungsverfahren. Mitt. Biol. Zentralanst. 1952, H. 74, S. 116—122, 5 Abb.

El-Azzazi, K., The effect of 2, 4-dichlorophenoxyacetic acid and other similar substances upon phosphate metabolism in yeast. Ohio State Univ. Abstr. Doct. Diss. 63. 1952, 47—48.

Ennis, W. B., Wiliamson, R. E., and **Dorschen, K. P.,** Studies on spray retention by leaves of different plants. Weeds 1. 1952, 274—286.

Fabre, R., Truhaut, R., et **Boudène, C.,** Dosage de petites quantités de nicotine dans les atmosphères et les milieux biologiques animaux ou végétaux; application à l'étude de l'absorption et de l'élimination de l'alcaloide chez les sujets exposés. Ann. Pharm. franç. 10. 1952, 579—594.

Gäumann, E., Naef-Roth, St., Reusser, P., und **Ammann, A.,** Über den Einfluß einiger Welketoxine und Antibiotica auf die osmotischen Eigenschaften pflanzlicher Zellen. Phytopath. Ztschr. 19. 1952, 160—220, 25 Abb.

Gamble, S. J. R., Respiration rates and plate counts for determining effect of herbicides on heterotrophic soil microorganisms. Soil Sci. 74. 1952, 347—350, 1 fig.

Gericke, S., Wirkung radioaktiver Stoffe auf das Pflanzenwachstum. Landw. Forsch., Darmstadt, 1952, Sonderh. Nr. 2, S. 72—76.

Göksel, N., ve **Teoman, S.,** 2, 4-D preparatlarinin tesiri ile kültür bitkilerinde meydana gelen deformasyonlar üzerinde bazi arastirmalar. (Untersuchungen über Mißbildungen an Kulturpflanzen, hervorgerufen durch die Wirkung von 2, 4-D-Präparaten.) Bitki Koruma Bült. (Bull. Plant Prot.), Ankara, 1952, nr. 3, p. 31—46.

Goldman, D. E., and **Lepeschkin, W. W.,** Injury to living cells in standing sound waves. J. cell., compar. Physiol., Philadelphia, 40. 1952, 255—268.

Grasso, V., Un caso particolare di danno da anidride solforosa. (A case of damage by sulphur dioxide.) Riv. Ortoflorofruttic. ital. 36. 1952, 126—129.

Haagen-Smit, A. J., Darley, E. F., Zaitlin, M., Hull, H., and **Noble, W.,** Investigation on injury to plants from air pollution in the Los Angeles area. Plant Physiol., Lancaster, 27. 1952, 18—34.

Hanson, W. R., Effects of some herbicides and insecticides on biota of North Dakota marshes. J. Wildlife Managem. 16. 1952, 299—308.

Harvey, W. A., Toxicity of three 2, 4-D formulations in California soils. Hilgardia, Berkeley, 21. 1952, 499—513.

Hesse, R., Zur Wirkung der Ultraschall-Behandlung von Samen auf die Keimung und das nachfolgende Wachstum von Pflanzen. Flora, Jena, 139. 1952, 565—585.

Hofmann, E., und **Schmeling, B. v.,** Zur Frage der Wirkung von 2, 4-Dichlorphenoxy-Essigsäure auf den Stoffwechsel der Pflanzen. Ztschr. Pfl.bau, -schutz 3. 1952, 264—271.

Hopkins, H. T., Inhibition of growth by benzene hexachloride isomers and protective effect of glucose as measured by cell counting technique. Plant Physiol., Lancaster, 27. 1952, 526—540.

Hunter, J. G., and **Vergnano, O.,** Nickel toxicity in plants. Ann. appl. Biol. 39. 1952, 279—284.

Jonas, H., Some effects of radio frequency irradiations on small oil-bearing seeds. Physiol. Plantarum, København, 5. 1952, 41—51.

Kloke, A., Der Einfluß von Pflanzenschutzmitteln auf Boden und Pflanze. Nachr. Beratg., Ausbildg. Landw. 5. 1952, 149.

Koike, H., and **Gainey, P. L.,** Effects of 2, 4-D and CADE, singly and in combination, upon nitrate and bacterial content of soils. Soil Sci. 74. 1952, 165—172.

Kozlowa, E. N., and **Dwortsowa, E. I.,** (Toxication of plants with organic (systemic) insecticides.) Dokl. Vses-oîûzn. Akad. Sel'skohoz. Nauk im. W. I. Lenina (Proc. Lenin Acad. agric. Sci.) 17. 1952, nr. 4, p. 41—48.

Kraus, H., Pflanzenwuchs und Atomforschung. Illustr. Flora, Wien, 75. 1952, 13—14.

Kruyt, W., Door groeistoffen veroorzaakte beschadigingen. Tuinbouwgids, Den Haag, 1952, 270.

Linden, G., Untersuchungen zur Wirkungsweise der 2, 4-Dichlorphenoxyessigsäure (2, 4-D). [auf keimende Samen] Diss. Landw. Hochschule Hohenheim 1952.

Linser, H., Keimversuche mit Adsorptionsschutz der Samen in 2, 4-D-behandeltem Boden. Pflanzenschutzberichte, Wien, 8. 1952, 65—74, 4 Abb.

Lusius, E., Verursacht E 605 Reifeverzögerung? Weinbau 7. 1952, Nr. 2, S. 30.

MacMillan, W. G., Bose, R. G., and **Bhattacharyya, J. P.,** A note on a copper tolerant Penicillium, part II — its cellulotic activity and effect on copper-proofed hessian. Sci. and Cult., Calcutta, 18. 1952, 287—288.

Maramorosch, K., Toxicity of cellulose acetate sheets to plants and fish. Science, Lancaster, 115. 1952, 236, 1 fig.

Munding, H., Untersuchungen zur Frage der Strahlenresistenz des Chlorophylls in den Chloroplasten. Protoplasma 41. 1952, 212—234.

Newhall, A. G., Chrysanthemum foliage injury with methyl bromide. Chrysanthemum Soc. Amer. Bull. 20 (3). 1952, p. 12.

Newton, W., Effects of the application of fungicides to wounded plant tissues. Sci. Agric., Ottawa, 32, 1952, 659—662.

Nybom, N., Gustafsson, Å., and **Ehrenberg, L.,** On the injurious action of ionizing radiations in plants. Bot. Notiser, Lúnd, 1952, 343—365, 17 fig.

Pape, H., Schäden durch Heizkesselgase. Zentralbl. dtsch. Erwerbsgartenbau 4. 1952, Nr. 32, S. 1.

Petersen, H. I., Ulemper og Farer ved brug af Kemiske Unkrudtsmidler. Tidsskr. Landøkon. København, 1952, nr. 3, p. 121—132.

Reckendorfer, P., Ein Beitrag zur Mikrochemie des Rauchschadens durch Fluor. Die Wanderung des Fluors im pflanzlichen Gewebe. I. Teil: Die unsichtbaren Schäden. Pflanzenschutzberichte, Wien, 9. 1952, 33—55.

Repp, G., Zur Kenntnis der Selektivwirkungen von 2, 4-D-Verbindungen I. Physiologische Reaktionen resistenter und empfindlicher Pflanzen und ihre ökologische Auswirkung. Pflanzenschutzberichte, Wien, 9. 1952, 161—181, 6 Abb.

Resende, F., Tumores produzidos pelo ácido 2, 3, 5-triiodobenzoico (ATIB) em Bryophyllum daigremontianum. Bol. Soc. portug. Ciênc. naturales, Lisboa, 2. 1952, 157—158, 1 fig.

Riepma, P., (Border area injuries and selectivity in chemical weed control.) Landbouwkdg. Tijdschr., 's-Gravenhage, 64. 1952, 387—393.

Roistacher, C. N., Phytotoxicity of formaldehyde residue on flats. Phytopathology 42. 1952, 171—172, 2 fig.

Rossiter, R. C., Phosphorus toxicity in subterranean clover and oats grown on Muchea sand, and the modifying effects of lime and nitrate-nitrogen. Austr. J. agric. Res. 3. 1952, 227—243.

Rothstein, A., and **Berke, H.,** Effects of 2, 4-dinitrophenol concentrations on rates of respiration and fermentation of yeast. Proc. Soc. exp. Biol., Med. 81. 1952, 559—563.

Sampford, M. R., Studies in the principles of phytotoxicity. II. Experimental designs and techniques of statistical analysis for the assessment of toxicity. J. exp. Bot. 3. 1952, nr. 7, p. 28—46, 8 fig.

Scheffer, F., Welte, E., und **Kloke, A.,** Untersuchungen über den Einfluß von Pflanzenschutzmitteln auf Boden und Pflanze. Ztschr. Pfl.ernähr., Düngg., Bodenkunde 56 (101). 1952, 151—171, 18 Abb.

Schipstra, K., Disease symptoms in various crops on iron-containing brook soils. Maandbl. Landbouwvoorl.dienst, 's-Gravenhage, 9. 1952, 271—274.

Shenefelt, R. D., Residual effect of chlordane on crabgrass when applied to lawn for control of sod webworm. J. econ. Ent. 45. 1952. 895.

Simon, E. W., Roberts, H. A., and **Blackman, G. E.,** Studies in the principles of phytotoxicity. III. The pH factor and the toxicity of 3, 5-dinitro-o-cresol, a weak acid. J. exp. Bot. 3. 1952, nr. 7, p. 99—109, 4 fig.

Strzemienski, K., Radiation injury from radioactive phosphorus in tracer experiments with plants. New Zealand J. Sci., Technol. (Sect. A) 34. 1952, 313—319.

Ulbrich, M., und **Saller, W.,** Gärhemmungen durch Spritzmittel? Mitt. Höh. Bundeslehr- u. Vers.anst. usw., Klosterneuburg, 2. 1952, 164—169, 7 Abb.

Van den Ende, J., De invloed van zout gietwater op de ontvikkeling van verschillende gewassen onder glas. Meded. Dir. Tuinbouw, 's-Gravenhage, 15. 1952, 884—903.

Vindard, G., Influence de l'acide 2-méthyl-4-chlorophénoxyacétique sur le développement de l'Azotobacter dans le sol. Compt. rend. Acad. Agric. France 39. 1952, 417—418.

Went, F. W., Distribution of plant injury due to organic air pollutants. Tijdschr. Plantenziekten 58. 1952, 253—254.

Whitehead, E. I., and **Moxon, A. L.,** Nitrate poisoning. South Dakota agric. Exp. Stat. Bull. 424. 1952, 24 p.

Wilson, G., The effects of BHC in pest control. [effects on plants and soils in grub control] Queensland Bur. Sugar Exp. Stat. Cane Growers' Quart. Bull. 16. 1952, 44—46.

Yakar, N., Mitotic disturbances caused by chloranil. Amer. J. Bot. 39. 1952, 540—546, 4 fig.

Did the atom bomb ruin our crops? Cites damage to Mississippi's »exotic trees« tracing effects of unseasonable frosts and floods. Tung World (Mississippi) 6. 1952, nr. 8, p. 5, 11, 13—14.

The **persistence** of Parathion, Toxaphene and Methoxychlor in soil. Oklahoma agric. Exp. Stat. Techn. Bull. nr. T-42. 1952. — Agric. Chem., Baltimore, 7. 1952, nr. 3, p. 79.

Pflanzenschädigende Wirkungen einiger Antibiotika. Umschau 52. 1952, 567.

e. Wunden
Wounds — Blessures

Bloch, R., Wound healing in higher plants. II. Bot. Rev., Lancaster, 18. 1952, 655—679.

Catalina, L., La cirugia vegetal y la longevidad de los árboles. Cultivador mod., Barcelona, 35. 1952, 131—132.

Goidànich, G., (Plant wounds.) Inform. Fitopat., Bologna, 2. 1952, 152—158.

Jacobs, W. P., The role of auxin in differentiation of xylem around a wound. Amer. J. Bot. 39. 1952, 301—309, 5 fig.

Kramp, M., Wundenbehandlung und Verschlußmittel. Gartenwelt 52. 1952, 60—62, 11 Abb.

Meier, E., Die Wundbehandlung im Obstbau. Schweiz. landw. Ztschr. »Grüne« 80. 1952, 349—352.

Müller, F. P., Wundbehandlung bei Obstbäumen. Kleingärtner u. Siedler 6. 1952, 4, 1 Abb.

Newton, W., Effects of the application of fungicides to wounded plant tissues. Sci. Agric., Ottawa, 32. 1952 659—662.

Pauck, Wunden an Obstbäumen sachgemäß behandeln! Bad. landw. Wochenbl. 119. 1952, 60, 4 Abb.

Stanković, D., (The wound healing of fruit trees as affected by graft wax and some growth regulating substances.) U. Poljoprivredni Fakul. God., Beograd, 4. 1952, 205—211.

Tiel, E., Große Wunden an Obstbäumen überbrücken! Rhein. Bauernztg. 6. 1952, 998, 2 Abb.

Wenzl, H., Wunden und Wundbehandlung bei Gehölzen. Bundesanst. Pfl.schutz, Wien, Flugbl. 76. 1952, 2 S.

Wysong, N., Treating tree wounds. Amer. Nurseryman, Rochester, 96. 1952, nr. 4, p. 10.

Wunden an Obstbäumen sachgemäß behandeln. Obstbau 71. 1952, 182—183, 7 Abb.

Wunden heilen — Werte schaffen. Land und Frau 32. 1952, 80.

4. Pflanzliche Feinde
Vegetal parasites — Parasites végétaux

a. Bacteriophyta

(Siehe auch — see also — voyez aussi p. 7.)

Bisset, K. A., Bacteria. E. & S. Livingstone Ltd., Edinburgh 1952. VIII + 123 p., 37 fig., 1 tab. geogr.

Bisset, K. A., Complete and reduced life cycles in Rhizobium. J. gen. Microbiol. 7. 1952, 233—242, 2 fig., 1 tab.

Bonnier, Ch., Milieu différentiel permettant la séparation de différentes souches de Rhizobium sp. Bull. Inst. agron., Stat. Rech. Gembloux 20. 1952, 146—147.

Braun, A. C., The crown-gall disease. [Agrobacterium (Bacterium) tumefaciens] Ann. New York Acad. Sci. 54. 1952, 1153—1161, 4 fig.

Braun, A. C., Plant cancer. Sci. Amer. 186. 1952, nr. 6, p. 66—68, 70, 72.

Burton, M. O., and **Lockhead, A. G.,** Synthesis of vitamin B_{12} by Rhizobium meliloti. Canad. J. Bot. 30. 1952, 521.

Canova, A., (Root tumors.) Inform. Fitopat., Bologna, 2. 1952, 25—28.

Cass Smith, W. P., and **Doepel, R. F.,** Plant diseases. Crown gall of fruit trees and other plants. Black rot of stocks. [Agrobacterium (Bacterium) tumefaciens, Xanthomonas incanae] J. Dept. Agric. West. Austr. 1 (ser. 3). 1952, 831—833, 835—836, 3 fig.

Chamberlain, D. W., Variability among isolates of Pseudomonas tabaci. Phytopathology 42. 1952, 4 (Abstr.).

Cipriani, P. L., Affinità e disformità tra neoproduzioni vegetali da Agrobacterium tumefaciens (Smith et Townsend) Conn. e tumori umani rilevate attraverso indagini cito-chimiche. Phytopath. Ztschr. 19. 1952, 1—19, 4 fig.

Clarke, P. H., and **Cowan, S. T.,** Biochemical methods for bacteriology. J. gen. Microbiol. 6. 1952, 187—197.

De Capite, L., Action du paraaminophenylsulfamide et de l'acide paraaminobenzoïque sur le parenchyme vasculaire de topinambour et sur les tissus de crown gall de scorsonère cultivés in vitro. [Bact. tumefaciens] Compt. rend. Acad. Sci., Paris, 234. 1952, 2478—2480, 1 fig.

Dye, D. W., The effects of chemicals and antibiotic substances on crown-gall (Agrobacterium tumefaciens (Smith et Townsend) Conn.). Part IV. New Zealand J. Sci., Technol. (Sect. A) 33. 1952, nr. 5, p. 104—108, 1 fig.

Egorow, N. S., (On forced antagnonism in bacteria.) Mikrobiologiia, Moskwa, 21. 1952, nr. 1, p. 116—120.

Gautheret, R. J., Cancer végétal et culture des tissus. Rev. Path. comp., Paris, 52. 1952, 100—120.

Gregg, M., Studies in the physiology of parasitism. XVII. Enzyme secretion by strains of Bacterium carotovorum and other pathogens in relation to parasitic vigour. Ann. Bot., London, 16 (n. ser.). 1952, 235—250, 3 fig.

Helton, A. W., Controlling fireblight. Idaho agric. Exp. Stat. Bull. 122. 1952, 4.

Hill, E. C., and **Faville, L. W.,** Studies on the artificial infection of oranges with acid tolerant bacteria. Proc. Florida State hortic. Soc. 64. (1951). 1952, 129—130.

Hingorani, M. K., and **Addy, S. K.,** A comparative study of Erwinia carotowora, Erwinia aroideae, and Erwinia atroseptica. Indian Phytopath. 5. 1952, 40—43, 1 fig.

Hollis, J. P., Studies on Streptomyces scabies. I. Variability in a melanin-indicator medium. Phytopathology 42. 1952, 273—276, 2 fig.

Jensen, H. L., The coryneform bacteria. Ann. Rev. Microbiol. 6. 1952, 77—90, 1 fig.

Johnson, M. D., and **Allen, O. N.,** Cultural reactions of Rhizobia with special reference to strains isolated from Sesbania species. Antonie van Leeuwenhoek, J. Microbiol., Serol., 18. 1952, 1—12.

Kleczkowski, J., and **Kleczkowski, A.,** Effect of specific polysaccharides from the host bacteria and of ribonuclease on the multiplication of Rhizobium phages. J. gen. Microbiol. 7. 1952, 340—349.

Kraght, A. J., and **Starr, M. P.,** Fermentation of galacturonic acid and glucose by a strain of Erwinia carotovora. J. Bact., Baltimore, 64. 1952, 259—264, 1 fig.

Lance, C., et **Gautheret, R.,** Sur la pérennité des propriétés tumorales des tissus de crown-gall et des tissus ayant subi le phénomène d'accoutumance aux auxines. [Bacterium tumefaciens] Compt. rend. Acad. Sci., Paris, 235. 1952, 1682—1684.

Masumoto, S., (Taxonomic studies of soil Actinomyces in Japan.) Bot. Mag. 65. 1952, 71—76, 123—127.

Matsui, C., (Relation of temperature to the activity of solanacearum phage a.) [Bacterium (Pseudomonas) solanacearum] Ann. phytopath. Soc. Japan 16 1952, 34.

Patel, M. K., Bhatt, V. V., and **Kulkarni, Y. S.,** Some phytopathogenic bacteria requiring reinvestigation. Indian Phytopath. 5. 1952, 116—120.

Patel, M. K., Kulkarni, Y. S., and **Dhande, G. W.,** Some new bacterial diseases of plants. Curr. Sci., Bangalore, 21. 1952, 345—346.

Ramachandran, L. K., Plant tumours versus animal tumours. [Bact. tumefaciens] J. Madras Univ. (Sect. B) 22. 1952, 268—276.

Riker, A. J., Inoculations with bacteria causing plant disease. Pure Cult. Study Bact., Geneva (New York), Leafl. 10. 1952?, 14 p.

Smith, N. R., Gordon, R. E., and **Clark, F. E.,** Aerobic sporeforming bacteria. US Dept. Agric. agric. Monogr. 16. 1952, 148 p.

Smith, W. P. C., Crown gall of fruit trees and other plants. J. west. austr. Dept. Agric. 1 (ser. 3). 1952, 831, 833, 835.

Stapp, C., Zum Krebsproblem. [Pseudomonas tumefaciens] Ztschr. Bot. 40. 1952, 209—214.

Starygina, L. P., Bacillus ploymyxa as organism of soft rot. Mikrobiologiia, Moskwa, 21. 1952, nr. 1, p. 52-59.

Straszewska, Z., et **Manil, P.,** Action, sur le "crown-gall", du filtrat de culture de Agrobacterium tumefaciens et d'une suspension bactérienne pure stérilisée à 48° C. Bull. Inst. agron., Stat. Rech. Gembloux 20. 1952, 132—136, 2 fig.

Straszewska, Z., et **Manil, P.,** Immunité conférée à Datura stramonium par une première inoculation de Agrobacterium tumefaciens; résultats négatifs sur tomate (Lycopersicum esculentum). Bull. Inst. agron., Stat. Rech. Gembloux 20. 1952, 387—390, 2 fig.

Strutz, I., Beiträge zur Kenntnis der Biologie der Aktinomyceten. Arch. Mikrobiol. 17. 1952, 353—360.

Szybalski, W., Part I: Gradient plate technique for study of bacterial resistance. Science, Lancaster, 116. 1952, 46—48, 4 fig.

Tešić, Ž., e **Todorović, M.,** (Une nouvelle bactérie phytopathogène, Bacterium sambuci.) Saschtita Bilja (Plant Prot.), Beograd, nr. 11. 1952, 3—12, 1 tab.

Thomas, St., and **Grainger, Th. H.,** Bacteria. Blakiston Comp., New York 1952, 623 p.

Treggi, G., Azione di alcuni aminoacidi su Agrobacterium tumefaciens (Smith et Town.) Conn. (Action of some amino acids on Agrobacterium tumefaciens (Smith et Town.) Conn.) Ann. Sperim. agr., Roma, 6 (n. ser.). 1952, 1411—1419, 1 fig.

Volodin, A. P., (In regard to the nature of bacterial colonies.) Agrobiologiia, Moskwa, 2. 1952, 138—144.

Winstead, N. N., and **Kelman, A.,** Inoculation techniques for evaluating resistance to Pseudomonas solanacearum. Phytopathology 42. 1952, 628—634, 4 fig.

Woolley, D. W., Pringle, R. B., and **Braun, A. C.,** Isolation of the phytopathogenic toxin of Pseudomonas tabaci, an antagonist of methionine. J. biol. Chem. 197. 1952, 409—417.

Woolley, D. W., Schaffner, G., and **Braun, A. C.,** Isolation and determination of structure of a new amino acid contained within the toxin of Pseudomoans tabaci. J. biol. Chem. 198. 1952, 807—813, 1 fig.

b. Myxophyta

Flentje, N. T., and **Jeffery, M. W.,** A note on some slime moulds from South Australia. [Myxomycetes] J. Dept. Agric. South Austr. 55. 1952, 297—300, 4 fig.

Hawker, L. E., The lister memorial lecture. The physiology of Myxomycetes. Trans. brit. mycol. Soc. 35. 1952, 177—187, 1 tab.

c. Fungi

Allgemeiner Teil
General part — Partie générale

(Siehe auch — see also — voyez aussi p. 317.)

Adams, A. M., and **Miller, J. J.,** Detection of radiophosphorus in cells and spores of fungi by radioautography. Nature, London, 170. 1952, 239, 3 fig.

Apostolides, C. A., Contribution to the mycological flora of Greece. Ann. Inst. phytopath. Benaki 6. 1952, 62—78.

Bald, J. G., Stomatal droplets and the penetration of leaves by plant pathogens. Amer. J. Bot. 39. 1952, 97—99.

Berk, S., Biological effects of ionizing radiations from radium and polonium on certain fungi. Mycologia, Lancaster, 44. 1952, 587—598, 7 fig.

Braun, A. C., Plant cancer. Sci. Amer. 186. 1952, 66—72.

Bremer, H., Karel, G., Biyikoğlu, K., Göksel, N., ve **Petrak, F.,** Türkiyenin parazit mantarlari üzerinde incelemeler. (Beiträge zur Kenntnis der parasitischen Pilze der Türkei. IV—VII.) Istanbul Univ. Fak. Mecmuasi (Rev. Fac. Sci. Univ. Istanbul) (Sér. B.) 17. 1952, 145—160, 1 fig.; 161—181, 2 fig.; 259—276, 9 fig.; 277—288, 6 fig.

Butler, E. E., and **Rowell, J. B.,** Abnormal spore germination and microthallus development of fungi induced by dilute colloidal polonium. Nuclear Sci. 6. 1952, 136 (Abstr.).

Carrera, C. J. M., Pueden resultar muy graves los perjuicios que causa la »enfermedad de los almacigos.« Mundo agric., Barcelona, 4. 1952, nr. 41, p. 49—50.

Christiansen, M. P., Bidrag til kendskabet af Danmarks resupinate svampe. III. Hydnaceae resupinatae. Odontia Fr., Mycoleptodon Pat., Mycoacia Donk og Kavinia Pilát. (Contributions to the resupinate fungus-flora of Denmark. III.) Friesia, København 4. 1952, 314—338, 17 fig.

Cooke, W. B., Western fungi. II. Mycologia, Lancaster, 44. 1952, 245—261.

Cooke, W. B., and **Shaw, C. G.,** Notes on Alaskan fungi. Washington State Coll. Res. Studies 20. 1952, 15—20.

Cooke, W. B., and **Shaw, C. G.,** Western fungi. III. Mycologia, Lancaster, 44. 1952, 795—812.

Damle, V. P., Enzymic study of certain parasitic fungi. J. indian bot. Soc., Madras, 31. 1952, nr. 1—2, p. 13—55, 15 fig.

Dennis, R. W. G., Biological races and their taxonomic treatment by mycologists. Proc. Linnean Soc., London, 163. 1952, nr. 1, p. 47—53.

De Sousa Dias, M. R., y **De Sousa da Camara, E.,** Fungi Lusitaniae. I. II. Agron. lusit. (Portugal) 14. 1952, 101—124, 4 tab., 193—227, 2 tab.

Dodge, B. O., The fungi come into their own. Mycologia, Lancaster, 44. 1952, 273—291, 2 fig.

Eichenmüller, J. J., Comparison of two methods of inoculation on the sporulation of 40 fungi. Phytopathology 42. 1952, 7 (Abstr.).

Gäumann, E., The fungi. A description of their morphological features and evolutionary development. (translated by **F. L. Wynd.**) Hafner Publ. Comp., New York 1952. 420 p., 440 fig.

Gilman, J. C., and **Tiffany, L. H.,** Fungicolous fungi from Iowa. Proc. Iowa Acad Sci. 59. 1952, 99—110, 18 fig.

Goodwin, T. W., Fungal carotenoids. Bot. Rev., Lancaster, 18. 1952, 291—316.

Greene, H. C., Notes on Wisconsin parasitic fungi. XV—XVI. Amer. Midland Naturalist 48. 1952, 37—54, 741—757.

Gregory, P. H., Fungus spores. Trans. brit. mycol. Soc. 35. 1952, 1—18.

Hansen, H. N., and **Snyder, W. C.,** Inheritance of the sexes and compatibilities in fungi. Phytopathology 42. 1952, 479—480 (Abstr.).

Hesseltine, C. W., Pidacks, C., Whitehill, A. R., Bohonos, N., Hutchings, B. L., and **Williams, J. H.,** Coprogen, a new growth factor for coprophilic fungi. [culture medium] J. amer. chem. Soc. (Pennsylv.) 74. 1952. 1362.

Hino, I., Specific characteristics or malformation caused by pathogen? J. jap. Bot. 27. 1952, 357—361, 3 fig.

Hochstein, P. E., and **Cox, C. E.,** Effect of tetrachloro-p-benzoquinone on certain fermentative enzyme systems in fungi. Phythopathology 42. 1952, 11 (Abstr.).

Hollis, J. P., A rapid photometric method for determining generation time of fungi. Phytopathology 42. 1952, 11 (Abstr.).

Hughes, S. J., Fungi from the Gold Coast. I. Mycol. Pap. Kew, 48. 1952, 91 p., 32 fig., 1 tab. geogr.

Imazeki, R., A contribution to the fungous flora of Dutch New Guinea. Meguro Forest. Exp. Stat. Bull. 57. 1952, 87—140, 10 fig., 12 tab., 1 tab. geogr.

Jinks, J. L., Heterokaryosis: a system of adaptation in wild fungi. Proc. R. Soc. London, Ser. B, 140. 1952, 83—99, 4 fig., 1 tab.

Jørstad, I., Parasitic fungi from various parts. Nytt Mag. Bot., Oslo, 1. 1952, 89—106, 2 fig.

Kominami, K., An additional list of cultures maintained in the Japanese type culture collection, Nagao Institute, Kitashinagawa, Tokyo. Supplement 1 (Dec. 1950—Mai 1952). Nagaoa (Mycol. J. Nagao Inst., Tokyo.) nr. 1. 1952, 40—81.

Kreitlow, K. W., and **Sherwin, H. S.,** Infectivity of dried inoculum of some foliar pathogens. Phytopathology 42. 1952, 469.

Langeron, M., et **Vanbreuseghem, R.,** Précis de mycologie. Mycologie générale, mycologie humaine et animale techniques. Masson & Cie., Paris 1952. 2. ed. (rev. et augm.), VIII + 703 p., 461 fig.

Losa, M., Notas micológicas. Coll. bot., Barcinone, 3. 1952, 147—161.

Martin, G. W., Notes and brief articles: A refrigerator cabinet for fungal cultures. Mycologia, Lancaster 44. 1952, 578—582, 2 fig.

Martin, G. W., Notes on Iowa fungi. XII. Proc. Iowa Acad. Sci. 59. 1952, 111—118, 6 fig.

Miller, L. P., and **McCallan, S. E. A.,** True dosage received by fungus spores treated with labeled 2-heptadecyl-2-imidazoline. Phytopathology 42. 1952, 470.

Owens, R. G., Spore uptake of fungi-toxicants assayed by amylase inhibition. Phytopathology 42. 1952, 471—472.

Perišić, M., (Contribution à la connaissance des champignons parasites des environs de Valjevo (Serbie).) Saschtita Bilja (Plant Prot.), Beograd, nr. 10. 1952, 53—55.

Petrak, F., Beiträge zur Pilzflora von Niederösterreich. Sydowia, Ann. mycol., 6. 1952, 227—245.

Petrak, F., Fungi beltsvillenses. III. Sydowia, Ann. mycol., 6. 1952, 5—16.

Petrak, F., und **Deighton, F. C.,** Beiträge zur Pilzflora von Sierra Leone. Sydowia, Ann. mycol., 6. 1952, 309—322, 1 Abb.

Ramakrishnan, K., and **Subramanian, C. V.,** The fungi of India — a second supplement. J. Madras Univ., Sect. B, 22. 1952, 1—65, 163—182.

Ramakrishnan, T. S., Additions to fungi of Madras. XII. Proc. indian Acad. Sci (Sect. B) 35. 1952, 111—121, 9 fig.

Ramakrishnan, T. S., and **Sundaram, N. V.,** Notes on some fungi from South India. I. Indian Phytopath. 5. 1952, 110—115, 1 tab.

Salvin, S. B., Endotoxin in pathogenic fungi. J. Immunol., Baltimore, 69. 1952, 89—99.

Scherr, G. H., A nephelometric technique for large cultures. Mycologia, Lancaster, 44. 1952, 575—577, 3 fig.

Schreier, O., 1951 — ein Pilzjahr. Pflanzenarzt, Wien, 5. 1952, Nr. 1, S. 2—3.

Servazzi, O., Sull' uso del blu diretto in fitopatologia. (On the use of direct blue in phytopathology.) Nuovo Giorn. bot. ital. 59 (n. ser.). 1952, 497—499, 2 fig.

Sisler, H. D., and **Cox, C. E.,** Effect of tetramethylthiuram disulfide on anaerobic breakdown of glucose by fungi. Phytopathology 42. 1952, 475.

Subramanian, C. V., Fungi isolated and recorded from Indian soils. J. Madras Univ. (Sect. B) 22. 1952, 206—222.

Talbot, P. H. B., Dispersal of fungus spores by small animals inhabiting wood and bark. Trans. brit. mycol. Soc. 35. 1952, 123—128.

Thiel, J., (Some observations on the fungus infection of plants.) Cult. en Handel 18. 1952, 230—232.

Thom, Ch., Molds, mutants and monographers. Mycologia, Lancaster, 44. 1952, 61—85, 1 fig.

Togashi, K., and **Katsuki, S.,** New or noteworthy parasitic fungi in Japan. II. Yokohama Univ. (Sect. II) Sci. Rept. 1. 1952, 1—7, 4 fig.

Tomiyama, K., Akai, J., and **Washio, T.,** (Studies on the specific affinity between the host plant juice on the germination of the spores of parasitic fungus.) Hokkaido nat. agric. Exp. Stat. Res. Bull. 63. 1952, 84—95.

Verdcourt, B., The effect of certain phenolic compounds on the germination and growth of microfungi. Mycologia, Lancaster, 44. 1952, 377—386, 7 fig.

Verona, O., Azione della vitamina K_5 su alcuni funghi, incluso funghi fitopatogeni. (The action of vitamin K_5 on certain fungi, including phytopathogens.) Nuovo G. bot. ital. 59 (n. ser.). 1952, 522—524.

Viennot-Bourgin, G., Notes mycologiques (II). Rev. Path. vég., Ent. agric. France 31. 1952, 185—194, 2 fig.

Yamamoto, M., (Miscellaneous notes on fungi collected in Oze district.) Ann. phytopath. Soc. Japan 16. 1952, 69—71.

Yarwood, C. E., Guttation due to leaf pressure favors fungus infections. Phytopathology 42. 1952, 520 (Abstr.).

Yarwood, C. E., Temperature response of fungi as a straight line transformation. Plant Physiol., Lancaster, 27. 1952, 634—638.

Yarwood, C. E., and **Jacobson, L.,** Fungicidal action due to selective toxicity and selective absorption. Phytopathology 42. 1952, 478.

Zachos, D. G., Catalogue commenté des champignons et virus rencontrés sur les plantes cultivées en Gréce. Ann. Inst. phytopath. Benaki 6. 1952, 88—90.

Spezieller Teil
Special part — Partie spéciale

Archimycetes

Cook, M. T., Species on Synchytrium in Louisiana. VII. A new species on Urtica chamaedryoides. Macologia, Lancaster, 44. 1952, 827—828, 5 fig.

Safeeulla, K. M., and **Govindu, H. C.,** Notes on two Synchytrium species. Curr. Sci., Bangalore, 21. 1952, 319—320, 1 fig.

Phycomycetes

Angell, H. R., Seedling blight. VI. The effect of mixtures of unsterilized soils, and of reinfesting steamed soils, on seedling blight of poppies and peas. [Pythium ultimum, P. mamillatum] Austr. J. agric. Res. 3. 1952, 128—136.

Drechsler, Ch., Production of zoospores from germinating oospores of Pythium ultimum and Pythium debaryanum. Bull. Torrey bot. Club 79. 1952, 431—450, 8 fig.

Drechsler, Ch., Six species of Conidiobolus isolated on maize-meal agar canopied with moist plant detritus. Phytopathology 42. 1952, 341 (Abstr.).

Drechsler, Ch., Two species of Basidiobolus widely distributed in leaf mold. Phytopathology 42. 1952, 341 (Abstr.).

Goldie-Smith, E. K., The sporangial phase of Pythium undulatum Petersen. J. Elisha Mitschell sci. Soc. 68. 1952, 273—292, 2 fig., 3 tab.

Hughes, M. B., and **van Haltern, F.,** Two biological forms of Pseudoperonospora cubensis. Plant Dis. Reptr. 36. 1952, 365—367.

Hurtig, I., Gefäßversuche mit kohlhernieanfälligen und -resistenten Cruziferen. [Plasmodiophora] Nachr.bl. dtsch. Pflanzenschutzdienst, Berlin, NF 6. 1952, 10—14, 6 Abb.

Large, E. C., The interpretation of progress curves for potato blight and other plant diseases. Plant Pathology, London, 1. 1952, 109—117, 8 fig.

Likais, R., Über den Einfluß des Bodens und antagonistischer Bodenmikroben auf den Parasitismus von Pythium debaryanum. Arch. Mikrobiol. 18. 1952, 49—100, 9 Abb.

Lušin, V., (Pink rot — Phytophthora erythroseptica (Pethybridge).) Saschtita Bilja (Plant Prot.), Beograd, nr. 9. 1952, 64—69, 3 tab., 1 tab. geogr.

Mayor, E., À propos de deux Peronospora nouveaux observés dans le Midi de la France. Ber. schweiz. bot. Ges. 62. 1952, 476—481.

Middleton, J. T., Generic concepts in the Pythiaceae. Tijdschr. Plantenziekten 58. 1952, 226—235.

Newton, W., and **Lopatecki, L. E.,** The nutrition of Phytophthora spp. Proc. canad. phytopath. Soc. nr. 20. 1952, 20 (Abstr.).

Nicolas, G., et **Aggéry, B.,** Sur un mode d'action très particulier de Cystopus bliti (Biv.-Bern.) Lév. [on Amaranthus viridis] Bull. Soc. mycol. France 67. (1951). 1952, 419—421, 1 fig.

Ødegård, K., On the physiology of Phycomyces blakesleeanus Burgeff. I. Mineral requirements on a glucose-asparagine medium. Physiol. Plantarum, København, 5. 1952, 583—609.

Pierpoint, M., Weeds pop up where crop seeds fear to grow. News Letter Assoc. off. Seed Analysts North Amer. 26, 1952. nr. 4, p. 3—4.

Pupillo, M., (Mosaic-like Peronospora.) Inform. Fitopat., Bologna, 2. 1952, 46—48.

Shaw, C. G., and **Yerkes jr., W. D.,** Additions to the downy mildews (Peronosporaceae) of the Pacific Northwest. Northwest Sci., Cheney (Washington), 26. 1952, 19—21.

Sparrow, F. K., Phycomycetes from the Douglas Lake Region of Northern Michigan. Mycologia, Lancaster, 44. 1952, 759—772, 1 fig.

Steindl, D. R. L., and **Smith, N. M.,** Sclerospora disease. Cane Growers' Quart. Bull. (Queensland) 56. 1952, 7—9.

Takahashi, M., (A comparative study on the pathogenicity of two species of aquatic Pythium, P. aphanidermatum and P. monospermum.) Ann. phytopath. Soc. Japan 16. 1952, 19—22.

Thirumalachar, M. J., and **Whitehead, M. D.,** Sporangial phase of Sclerospora butleri. Amer. J. Bot. 39. 1952, 416—418, 8 fig.

Thurston, H. D., and **Eide, C. J.,** The appearance and survival of new races of Phytophthora infestans. Phytopathology 42. 1952, 481—482 (Abstr.).

Toro, R. A., A study of the tropical American black-mildews. J. Agric. Univ. Puerto Rico 36. 1952, nr. 1, p. 24—87, 5 fig., 1 tab. geogr.

Wallin, J. R., and **Samson, R. W.,** Forecasting late blight in Indiana from mean temperature and cumulative rainfall data. Phytopathology 42. 1952, 482 (Abstr.).

Zentmyer, G. A., Evaluation of soil fungicides for control of Phytophthora cinnamomi. Phytopathology 42. 1952, 24 (Abstr.).

Zentmyer, G. A., Phytophthora root rot of nursery stock. Plant Dis. Reptr. 36. 1952, 211—212.

Zentmyer, G. A., A substance stimulating sexual reproduction in Phytophthora cinnamomi. Phytopathology 42. 1952, 24 (Abstr.).

Zentmyer, G. A., Baker, K. F., and **Thorn, W. A.,** The role of nursery stock in the dissemination of soil pathogens. [Phytophthora cinnamomi] Phytopathology 42. 1952, 478—479.

Ascomycetes

Arx, J. A. v., Studies on Venturia and related genera. Tijdschr. Plantenziekten 58. 1952, 260—266, 4 fig.

Arx, J. A. v., Über die Ascomycetengattungen Ceratostomella Sacc., Ophiostoma Syd. und Rostrella Zimmermann. Antonie van Leeuwenhoek, J. Microbiol., Serol., 18. 1952, 201—213, 3 Abb.

Bache-Wiig, S., Further notes on Cryptomycina Pteridis. Mycologia, Lancaster, 44. 1952, 705—708.

Bisby, G. R., The name Oidium. Trans. brit. mycol. Soc. 35. 1952, 236—237.

Bisby, G. R., and **Dennis, R. W. G.,** Notes on British Hysteriales. Trans. brit. mycol. Soc. 35. 1952, 304—307, 2 fig.

Bisby, G. R., and **Hughes, S. J.,** Summary of the British Hysteriales. Trans. brit. mycol. Soc. 35. 1952, 308—314, 3 fig.

Blumer, S., Beiträge zur Spezialisation der Erysiphaceen. Ber. schweiz. bot. Ges. 62. 1952, 384—401.

Burges, A., and **Chalmers, B.,** Neurospora following a volcanic eruption. Nature, London, 170. 1952, 459—460.

Byrde, R. J. W., Experiments on the control of brown rot of apples and plums. II. [Sclerotinia] J. hortic. Sci., London, 27. 1952, 192—200.

Candela Martínez, M. I., El método del Aspergillus niger para la determinación de elementos en suelos. I. Puesta a punto del método para determinaciónes de magnesio. Microbiol. españ., Madrid, 5. 1952, 63—83, 8 fig.

Cooke, W. B., Nomenclatural notes on the Erysiphaceae. Mycologia, Lancaster, 44. 1952, 570—574.

Cort, A. J., (From ergotism to ergot cultivation.) Meded. Dir. Tuinbouw 15. 1952, 743—757.

Culot, J. Ph., De l'influence du sodium comme substituant du potassium dans la croissance de Aspergillus niger. Bull. Inst. agron., Stat. Rech. Gembloux 20. 1952, 141—145, 2 fig.

Cummings, R. H., Wright, C. M., and **Dietz, S. M.,** Unusual aspects of Claviceps investigations. [C. purpurea] Phytopathology 42. 1952, 513 (Abstr.).

Démétriadès, St. D., Études sur la biologie du Sclerotinia sclerotiorum (Lib.) Massee. II. L'utilisation de diverses sources de carbone. Ann. Inst. phytopath. Benaki 6. 1952, 51—59, 3 fig.

Diehl, W. W., Balansia and the Balansiae in America additions and corrections. Plant Dis. Reptr. 36. 1952, 55—56.

Dingley, J. M., The Hypocreales of New Zealand. IV. The genera Calonectria, Gibberella and Thyronectria. Trans. R. Soc. New Zealand 79. 1952, 403—411, 2 tab.

Dworschack, R. G., Koepsell, H. J., and **Lagoda, A. A.,** Proteolytic enzymes of microorganisms; evaluation of proteinases produced by molds of the Aspergillus flavus-oryzae group in submerged culture. Arch. Biochem., Biophys. 41. 1952, 48—60.

Gilman, J. C., and **Tiffany, L. H.,** Iowa Ascomycetes. I. The Xylariaceae. Iowa State Coll. J. Sci. 26. 1952, 455—482, 128 fig.

Gitterman, C. O., and **Knight, S. G.,** Carbon dioxide fixation into amino acids of Penicillium chrysogenum. J. Bact., Baltimore, 64. 1952, 223—231.

Gremmen, J., A preliminary study on the culture of Discomycetes, especially the perfect stage. Tijdschr. nederl. Leeuwenhoek 18. 1952, 153—164, 2 tab.

Gross, S. R., Heterokaryosis between opposite mating types in Neurospora crassa. Amer. J. Bot. 39. 1952, 574—577, 1 fig.

Groves, J. W., The genus Tympanis. Canad. J. Bot. 30. 1952, 571—651, 4 fig., 3 tab.

Gürcan, A., Taş çekirdekli meyva ağaçlarımızda Monilia zararları. [Sclerotinia cinera] Bitki Koruma Bült. (Bull. Plant Prot.), Ankara, 1952, nr. 3, p. 50—54, 3 fig.

Haddox, C. H., The accumulation of α-phenylglycine by mutants of Neurospora crassa stimulated by phenylalanine and tyrosine. Proc. nat. Acad. Sci., Washington, 38. 1952, 482—489.

Holm, L., Taxonomical notes on Ascomycetes. II. The herbicolous Swedish species of the genus Leptosphaeria Ces. et De Not. Svensk bot. Tidskr. 46. 1952, nr. 1, p. 18—46, 5 fig.

Huebschman, Ch., A method for varying the average number of nuclei in the conidia of Neurospora crassa. Mycologia, Lancaster, 44. 1952, 599—604, 1 fig.

Jenkins, A. E., and **Limber, D. P.,** Two new Ascomycetes on Phoradendron. Mycologia, Lancaster, 44. 1952, 557—560, 2 fig.

Jørgenson, H. A., Studies on Nectria cinnabarina; hosts and variations. Meddel. Vet.-, Landbohøjsk., Plantepat. Afd., København, 35. 1952, 59—120. — Årsskr. Kgl. Vet.-, og Landbohøjsk. (Jahrb. Kgl. tierärztl., landw. Hochsch.), København, 1952, 57—120, 23 fig.

Jurkowska, H., Investigations on the adaptability of Aspergillus niger to copper. Bull. int. Acad. Cracovie, Sér. B, 4 (1951). 1952, 167—201, 9 fig., 2 tab.

Kawatani, T., (Hosts of Claviceps.) Bull. nat. hyg. Lab., Tokyo, 70. 1952, 127—152.

Korf, R. P., Two techniques for showing spore markings in operculate Discomycetes. Trans. brit. mycol. Soc. 35. 1952, 24—25.

Langdon, R. F. N., The geographic distribution of Claviceps pusilla. Austr. J. Sci. 14. 1952, 164—165.

Luc, M., Ophiostoma moniliforme (Hedgc.) H. et P. Syd. et ses diverses formes. Rev. Mycol., Paris, 17. 1952, Suppl. colon. 1, 10—16, 2 fig.

MacMillan, W. G., Bose, R. G., and **Bhattacharyya, J. P.,** A note on a copper tolerant Penicillium. II. Its cellulolytic activity and effect on copper-proofed hessian. Sci. and Cult., Calcutta, 18. 1952, 287—288.

Malençon, G., et **Marion, J.,** L'Hypoxylon mediterraneum (DNtrs.) Ces. et DNtrs. et son comportement épiphytique dans les chênaies nord-africaines. Rev. Mycol. 17. 1952, Suppl. colon. 2, p. 49—73, 1 fig.

Mehrotra, B. S., Invertase activity of Penicillium italicum Wehmer. Lloydia, Cincinnati (Ohio), 15. 1952, 185—187.

Mitchell, M. B., Pittenger, T. H., and **Mitchell, H. K.,** Pseudo-wild types in Neurospora crassa. Proc. nat. Acad. Sci. 38. 1952, 569—580.

Moreau, C., Coexistence des formes Thielaviopsis et Graphium chez une souche de Ceratocystis major (van Beyma) nov. comb. Remarques sur les variations des Ceratocystis. Rev. Mycol., Paris, 17. 1952, Suppl. colon. 1, p. 17—25, 1 fig.

Moreau, F., et **Moreau,** Sur le développement du Ceratocystis moniliformis (Hedgcock) nov. comb. Rev. Mycol., Paris, 17. 1952, 141—153, 4 fig.

Morgan jr., O. D., Correlation of the growth rate of 23 Sclerotinia isolates in vitro with rate of infectivity in five hosts at five different temperatures. Phytopathology 42. 1952, 471.

Müller, E., Die schweizerischen Arten der Gattung Ophiobolus Riess. Ber. schweiz. bot. Ges. 62. 1952, 307—339, 9 Abb.

Munk, A., New Pyrenomycetes from the Herbarium of Poul Larsen. Dansk bot. Ark. 14. 1952, nr. 8, p. 8.

Olgyay, M., és **Lehoczky, J.,** Almafaliszthartmat elleni védekezési kísérletek. (Control test of Podosphaera leucotricha.) Ann. Acad. Hortic., Vitic., Budapest, 3. 1952, nr. 1, p. 115—129, 5 fig.

Overell, B. T., A toxin in culture filtrates of Sclerotinia sclerotiorum. Austrl. J. Sci. 14. 1952, 197—198.

Rees, H., and **Jinks, J., L.,** The mechanism of variation in Penicillium heterokaryons. Proc. R. Soc., London, Ser. B, 140. 1952, 100—106, 3 fig.

Rolinson, G. N., Respiration of Penicillium chrysogenum in penicillin fermentations. J. gen. Microbiol. 6. 1952, 336—343, 1 fig.

Sagromsky, H., Der Einfluß des Lichtes auf die rhythmische Konidienbildung von Penicillium. Flora, Jena, 139. 1952, 300—313.

Simmons, E. G., Culture studies in the genera Pleospora, Clathrospora, and Leptosphaeria. Mycologia, Lancaster, 44. 1952, 330—365, 13 fig.

Snyder, W. C., and **Hansen, H. N.,** Comparative efficacy of male and hermaphrodite in the fertilization of perithecial primordia. Phytopathology 42. 1952, 480—481 (Abstr.).

Storey, I. F., Mushrooms — and tomatoes too: do mites carry Didymella? Grower, London, 38. 1952, 351.

Terrier, Ch., Deux ascomycètes nouveaux. [Chloroscypha cryptomeriae n. sp. on Cryptomeria japonica and Karschia nootkatensis n. sp. on Chamaecyparis nootkatensis f. pendula] Ber. schweiz. bot. Ges. 62. 1952, 419—428, 4 fig., 2 tab.

Vitomir, M., Endothia parasitica in Slovenia. [newly discovered in Yugoslavia] Šumarski List, Zagreb, 76. 1952, 178—180.

Webster, J., Graminicolous Pyrenomycetes. IV. Microthyrium nigro-annulatum n. sp. and M. gramineum. Trans. brit. mycol. Soc. 35. 1952, 208—214, 3 fig.

Wehmeyer, L. E., The collection and preservation of ascomycetous fungi. Asa Gray Bull. 1 (n. ser.). 1952, 315—323.

Wehmeyer, L. E., The genera Leptosphaeria, Pleospora, and Clathrospora in Mt. Rainier National Park. Mycologia, Lancaster, 44. 1952, 621—655, 24 fig.

Wehmeyer, L. E., Some pyrenomycetous fungi from Mt. Rainier National Park. Sydowia, Ann. mycol., 6. 1952, 412—428, 1 fig., 1 tab.

Wehmeyer, L. E., Studies in the genus Pleospora. II, VI. Lloydia, Cincinnati (Ohio), 15. 1952, 65—109, 61 fig. — Amer. J. Bot. 39. 1952, 237—243, 13 fig.

Wheeler, H. E., and **McGahen, J. W.,** Genetics of Glomerella. X. Genes affecting sexual reproduction. Amer. J. Bot. 39. 1952, 110—119, 4 fig.

Whitehead, M. D., and **Dickson, J. G.,** Pathology, morphology and nuclear cycle of two new species of Pyrenophora. Mycologia, Lancaster, 44. 1952, 747—758, 29 fig.

Yamamoto, W., (The germination of spores of the sooty mould fungus, and the growth of their germ tubes, with special reference to the honeydews secreted by insects.) [Capnodium fuliginodes Rehm] Ann. phytopath. Soc. Japan 16. 1952, 49—53.

Yarwood, C. E., Some water relations of Erysiphe polygoni conidia. Mycologia, Lancaster, 44. 1952, 506—522, 6 fig.

Zogg, H., Über einige schweizerische Hysteriaceen. [Hysterographium fraxini] Ber. schweiz. bot. Ges. 62. 1952, 275—295, 14 fig.

Basidiomycetes

Anderson, J. P., The Uredinales of Alaska and adjacent parts of Canada. Iowa State Coll. J. Sci. 26. 1952, 507—526.

Aschan, K., Studies on dediploidisation mycelia of the basidiomycete Collybia velutipes. Svensk bot. Tidskr. 46. 1952, 366—392, 5 fig., 4 tab.

Bakshi, B. K., Oedocephalum lineatum is a conidial stage of Fomes annosus. Trans. brit. mycol. Soc. 35. 1952, 195, 1 tab.

Bose, S. R., Identity of Polystictus (Polyporus, Trametes) cinnabarinus (Jacq.) Fr. with Polystictus sanguineus (L.) Fr. Nature, London, 170. 1952, 1020, 1 fig.

Bremer, H., Karel, G., Biyikoğlu, K., Göksel, N., und **Petrak, F.,** Beiträge zur Kenntnis der parasitischen Pilze der Türkei. V. Basidiomycetes II. Rev. Fac. Sci. Univ. Istanbul (Sér. B) 17. 1952, 161—181, 2 fig.

Chinnayya, E. J., Colonization of plant debris by Coprinus species in soils. Nature, London, 170. 1952, 252.

Cummins, G. B., Uredinales from various regions. Bull. Torrey bot. Club 79. 1952, 212—234, 21 fig.

Dennis, R. W. G., Coprinus auricomus Pat. in England. Kew Bull. 4. 1952, 548.

Donk, M. A., Notes on resupinate Hymenomycetes-I. On Pellicularia Cooke. Reinwardtia, Kebun Raya, 2. 1952, 425—435.

Dupias, G., Sur deux nouveaux cycles d'urédinées. Compt. rend. Acad. Sci., Paris, 236. 1952, 962—963.

Eyerdam, W. J., A giant bracket fungus (Fomes applanatus) found in south eastern Alaska. Svensk Bot. Tidskr. 46. 1952, 58—70.

Fedorinčik, N. S., (Virulenz und Wirksamkeit einer Kultur des Rostparasiten Darluca filum (Biv.) Cast.) Mikrobiologiia, Moskwa, 21. 1952, 711—717.

Fischer, G. W., Some new species of Ustilaginales from North America. Res. Stud. State Coll. Washington 20. 1952, 3—10, 5 fig.

Fischer, G. W., and **Meiners, J. P.,** Ustilago turcomanica Tranzsch. in the United States. Mycologia, Lancaster, 44. 1952, 207—212, 1 fig.

Fischer, G. W., and **Shaw, C. G.,** Some problems of species concept and nomenclature in the smut fungi. Phytopathology 42. 1952, 479 (Abstr.).

Fischer, R., Ein heteröcischer Rostpilz, Puccinia ruttneri nov. spec., der Spitz-Segge (Carex gracilis Curtis). [auf Petasites hybridus] Pflanzenschutzberichte, Wien, 9. 1952, 17—25, 1 Abb.

Gäumann, E., und **Terrier, Ch.,** Mykologische Mitteilungen. [Uromyces volkartii, Puccinia croci, P. sesleriae, P. trailii] Ber. schweiz. bot. Ges. 62. 1952, 297—306, 3 Abb.

Gattani, M. L., Lysis in rust uredospore germ tubes. Phytopathology 42. 1952, 70—71, 1 fig.

Gokhale, V. P., and **Patil, B. P.,** Occurrence of a new race (No. 122) of Puccinia graminis tritici in Bombay state. Curr. Sci., Bangalore, 21. 1952, 249—250.

Gutsewitsch, S. A., (Survey of the rust fungi of Crimea.) Zhdanov Leningrad State Univ., Leningrad 1952. 172 p., 140 fig.

Guyot, L., et **Massenot, M.,** Sur une urédinée, parasite des graminées, ayant so phase écidienne sur Clematis. [Puccinia hordei-maritimi] Compt. rend. Acad. Sci., Paris, 234. 1952, 1631—1634.

Hara, K., (A note on the aecial host and taxonomy of Puccinia sasaecola Hara.) Ann. phytopath. Soc. Japan 16. 1952, 71.

Heim, R., Trois Septobasidium du domaine Indo-Pacifique. [S. pteroloides, S. simmondsii, S. aleuritidis] Ber. schweiz. bot. Ges. 62. 1952, 412—417, 2 fig., 1 tab.

Hiratsuka, N., Materials for a rust-flora of Eastern Asia. (1). Jap. J. Bot. 27. 1952, 111—116.

Hotson, H. H., Studies on the physiology of the rust fungi. Diss. Abstr. 12. 1952, 246.

Hussain, S. M., A new species of Fomes from Pakistan. Mycologia, Lancaster, 44. 1952, 823—826, 2 fig.

Ito, K., (Helicobasidium monpa Tanaka, injuring many plants.) Jap. J. Plant Prot. 34. 1952, 155—158.

Jørstad, I., Parasitic fungi, chiefly Uredineae, from Tirich Mir in the State of Chitral, N. Pakistan. Nytt Mag. Bot., Oslo, 1. 1952, 71—87.

Jørstad, I., The Uredinales of Iceland. Skr. norske Vidensk.-Akad. Oslo, nr. 2 (1951). 1952, 87 p., 2 tab. geogr.

Johnson, T., Peturson, B., Brown, A. M., and **Green, G. J.,** Report on rust nurseries in Canada in 1952. Canad. Dept. Agric., Lab. Plant Path., Winnipeg, 1952, Rept. 3.

Losa, M., Un Uromyces nuevo para España. Inst. Bot. Collect. Bot., Barcelona, 3. 1952, 207—208.

Lowe, J. L., Perennial polypores of North America. Fomes with colored spores. Mycologia, Lancaster, 44. 1952, 228—238, 2 fig.

Lowe, J. L., Southern and tropical polypores. [Polyporus subcartilagineus, P. floriformis] Pap. Michigan Acad. Sci., Arts, Lett., New York, 37 (1951). 1952, nr. 1, p. 49—53.

Lowy, B., The genus Auricularia. Mycologia, Lancaster, 44. 1952, 656—692, 15 fig.

McKeen, C. G., Studies of Canadian Thelephoraceae. IX. A cultural and taxonomic study of three species of Peniophora. Canad. J. Bot. 30. 1952, 764—787, 8 fig., 2 tab.

Mundkur, B. B., and **Thirumalachar, M. J.,** Ustilaginales of India. Commonw. mycol. Inst., Kew 1952, 84 p., 148 fig.

Neilands, J. B., A crystalline organo-iron pigment from a rust fungus (Ustilago sphaerogena). J. amer. chem. Soc. (Pennsylv.) 74. 1952, 4846—4847.

Olive, L. S., A new species of Cystobasidium from New Jersey. Mycologia, Lancaster, 44. 1952, 564—569, 8 fig.

Overholts, L. O., New species of polypores. Mycologia, Lancaster, 44. 1952, 224—227, 1 fig.

Parker-Rhodes, A. F., The Basidiomycetes of Skokholm island. VIII. Taxonomic distributions. New Phytologist, Cambridge, 51. 1952, 216—228.

Pavgi, M. S., and **Thirumalachar, M. J.,** Notes on Indian Ustilagineae. IV. Mycologia, Lancaster, 44. 1952, 318—324, 27 fig.

Payak, M. M., Diploidisation in Uromyces hobsoni Vize and Puccinia thwaitesii Berk. Indian Phytopath. 5. 1952, 104—109, 9 fig.

Pesante, A., Nuove segnalazioni di Septobasidium. (New records of Septobasidium species.) Ann. Sperim. agr., Roma, 6 (n. ser.). 1952, 655—659, 3 fig., 1 tab. col.

Pinto-Lopes, J., »Polyporaceae«. Contribuicao para a sua bio-taxonomia. Mem. Soc. Brot., Coimbra, 8. 1952, 191 p., 29 tab.

Ramakrishnan, T. S., Srinivasan, K. V., and **Sundaram, N. V.,** Additions of the fungi of Madras. [new species in Aecidium, Puccinia, Uredo, Uromyces, and Microstroma] Proc. indian Acad. Sci. (Sect. B) 36. 1952, 85—95.

Rayss, T., Étude des quelques Ustilaginées recoltées en Palestine. Palest. J. Bot. (Jerusalem Ser.) 5. 1952, 229—236.

Sanwal, B. D., Heteroecism in Puccinia invenusta Syd. Phytomorphology 2. 1952, 35—38.

Savile, D. B. O., Short-season adaptations in the rust fungi. [Puccinia, Uromyces] Phytopathology 42. 1952, 474.

Savile, D. B. O., A study of the species of Cintractia on Carex, Kobresia, and Scirpus in North America. Canad. J. Bot. 30. 1952, 410—435, 6 fig.

Sawada, K., Researches on fungi in the Tôhoku district of Japan (III). Uredinales. Meguro Forest. Exp. Stat. Bull. 57. 1952, 7—85.

Sharp, E. L., and **Smith, F. G.,** Preservation of Puccinia uredospores by lyophilization. Phytopathology 42. 1952, 263—264, 1 fig.

Sharp, E. L., and **Smith, F. G.,** Studies on the lyophilization of Puccinia uredospores. Phytopathology 42. 1952, 480 (Abstr.).

Singer, R., The agarics of the Argentine sector of Tierra del Fuego and limitrophous regions of the Magallanes area. Part I. White and pink spored groups. Sydowia, Ann. mycol., 6. 1952, 165—226.

Singer, R., Type studies on agarics. III. Lilloa, Rev. Bot., Tucumán, 25. 1951, 463—514.

Singer, R., y Digilio, A. P. L., Pródromo de la flora Agaricina Argentina. Lilloa, Rev. Bot., Tucumán, 25. 1951, 5—461.

Smarods, J., (Übersicht der Rostpilze der Lettischen SSR.) LPSR ZA Vēstis 1952, nr. 7, p. 125—140.

Snijders, J. H., Bodembescherming en blisterblight. (Ground protection and blister blight.) [Exobasidum vexans] Bergcultures 21. 1952, 139, 141, 143, 145, 1 fig.

Thiel, H., Zur Verbreitungsweise des Schmarotzerröhrlings. [Xerocomus parasiticus] Ztschr. Pilzkunde. 10. 1952, 25—26.

Thirumalachar, M. J., and **Narasimhan, M. J.,** Zundelula, a new genus of smuts. Sydowia, Ann. mycol., 6. 1952, 407—411, 1 tab.

Tullis, E. C., and **Johnson, A. G.,** Synonymy of Tilletia horrida and Neovossia barclayana. Mycologia, Lancaster, 44. 1952, 773—788, 1 fig.

Viennot-Bourgin, G., Urédinales d'Afrique (2e note). Urédinales de la Côte d'Ivoire (1re note). Bull. Soc. mycol. France 67 (1951). 1952, 429—435.

Viennot-Bourgin, G., Ustilaginales d'Afrique. 2. Étude critique du genre Mycosyrinx. Rev. Bot. appl., Agricolon. (trop.), Paris, 32. 1952, 253—264.

Wakefield, E. M., New or rare British Hymenomycetes (Aphyllophorales). Trans. brit. mycol. Soc. 35. 1952, 34—65, 37 fig.

Wilson, M., and **Henderson, D. M.,** Some Scottish smut fungi. Trans., Proc. bot. Soc. Edinburgh 36. 1952, 71—73.

Plant diseases. Entyloma leaf spot of English marigold. Late or Irish blight of potatoes. Peach leaf curl. Shot hole of stone fruits. J. Dept. Agric. West. Austr. (ser. 3) 1. 1952, 501—502, 505—508, 4 fig.

Fungi imperfecti

Ainsworth, G. C., The incidence of air-borne Cladosporium spores in the London region. J. gen. Microbiol. 7. 1952, 358—361, 2 fig.

Atkins jr., J. G., Forage crop Rhizoctonia cross inoculation tests. Phytopathology 42. 1952, 282 (Abstr.).

Baldacci, E., Activité fongicide des sels d'o-oxyquinoleine sur le Bakerophoma tracheiphila (Petri) Cif. Proc. int. Congr. Crop Prot. 2 (1949). 1951, 10—11.

Batista, A. C., y Vital, A. F., Monografia das espécies de Phyllosticta em Pernambuco. (Monograph of the species of Phyllosticta in Pernambuco.) Bol. Secr. Agric., Ind., Com. Pernambuco 19. 1952, nr. 1—2, p. 1—80, 12 fig.

Bremer, H., Karel, G., Biyikoğlu, K., Göksel, N., und **Petrak, F.,** Beiträge zur Kenntnis der parasitischen Pilze der Türkei. VI—VII. Rev. Fac. Sci. Univ. Instanbul (Sér. B) 17. 1952, 259—276, 9 fig.; 277—288, 6 fig.

Brian, P. W., Elson, G. W., Hemming, H. G., and **Wright, J. M.,** The phytotoxic properties of alternaric acid in relation to the etiology of plant diseases caused by Alternaria solani (Ell. et Mart.) Jones et Grout. Ann. appl. Biol. 39. 1952. 308—321, 2 fig., 1 tab.

Cain, R. F., Studies of Fungi imperfecti. I. Phialophora. Canad. J. Bot. 30. 1952, 338—343, 1 fig.

Chona, B. L., and **Nariani, T. K.,** Investigations on the survival of Colletotrichum falcatum Went in soil. Indian Phytopath. 5. 1952, 152—157.

Chona, B. L., and **Srivastava, D. N.,** The perithecial stage of Colletotrichum falcatum Went in India. Indian Phytopath. 5. 1952, 158—160, 2 fig.

Ciccarone, A., (Observations on the genus Peyronellaea G. Goid.). Nuovo Giorn. bot. ital. 58. 1952, 362—363.

Claude, P., Les flétrissures végétales d'orgine fongique; étude sur la cause immédiate de la flétrissure due à Fusarium spp. Rev. Oka, La Trappe, 26. 1952, 46—54.

Cooke, W. B., and **Shaw, C. G.,** Cercosporella in Washington. Lloydia, Cincinnati (Ohio), 15. 1952, 125—128.

Da Faixão, J. S., The Alagoinha Experimental Station and the »Fusarium« problem. Agric. e Pecuaria (Brasil) 24. 1952, nr. 340, p. 48—50.

Damon, S. C., Type studies in Dictyosporium, Speira, and Cattanea. Lloydia, Cincinnati (Ohio), 15. 1952, 110—124, 2 fig.

Darpoux, H., Faivre-Amiot, A., Ridé, M., et **Roux, L.,** Étude des propriétés antagonistes et de quelques produits du métabolisme d'une souche d'Alternaria solani (E. et M.) Jones et Grout. Ann. Épiphyties, Paris, 3. 1952, 423—487, 43 fig.

Foster, R. M., Verticillium wilt. Shade Tree, Kearny (New Jersey), 25. 1952, nr. 9, p. 2—3.

Gäumann, E., Naef-Roth, St., et **Kobel, H.,** L'acide fusarique, une seconde toxine de flétrissement produite par Fusarium lycopersici Sacc. Compt. rend. Acad. Sci., Paris, 234. 1952, 173—174.

Gäumann, E., Naef-Roth, St., et **Kobel, H.,** Les synergismes chez les toxines de Fusarium lycopersici Sacc. Compt. rend. Acad. Sci., Paris, 234. 1952, 276—278.

Gäumann, E., Naef-Roth, St., und **Kobel, H.,** Über Fusarinsäure, ein zweites Welketoxin des Fusarium lycopersici Sacc. Phytopath. Ztschr. 20. 1952, 1—38, 12 Abb.

Gasiorkiewicz, E. C., Larson, R. H., Walker, J. C., and **Stahmann, M. A.,** Induced variability in Pyrenochaeta terrestris by nitrogen mustard. Phytopathology 42. 1952, 183—192, 4 fig.

Goll, M., Snyder, H. D., and **Birnbaum, H. A.,** New developments in the diagnosis of paint mildew. [Phoma] Off. Dig. Fed. Paint Varn. Prod. Cl. nr. 326. 1952, 149—154, 6 fig.

Gordon, W. L., Sexual phenomena related to the production of perithecia in certain species of Fusarium. Proc. canad. phytopath. Soc. nr. 20, 1952, 15—16 (Abstr.).

Goto, K., (Sclerotium rolfsii Sacc. in perfect stage. VII. Germination of basidiospores.) Ann. phytophat. Soc. Japan 16. 1952, 132—136.

Grassi, G. V., The biological control of Verticillium albo-atrum R. u. B. by various antagonistic microorganisms. Diss. Abstr. 17. 1957, nr. 7, p. 1449.

Green, J., An unusual occurrence of Sclerotium rolfsii. Austr. Plant Dis. Recorder 4. 1952, 23—24.

Higgins, D. J., Effect of medium on sporulation and pathogenicity of pathogenically different single conidial isolates of Alternaria solani. Phytopathology 42. 1952, 11 (Abstr.).

Holtzmann, O. V., Comparative studies of the pathogenicity of three Fusaria. J. Colorado-Wyoming Acad. Sci. 4. 1952, 75 (Abstr.).

Hughes, S. J., Speira stipitata. Trans. brit. mycol. Soc. 35. 1952, 243—247, 4 fig.

Hughes, S. J., Studies on micro-fungi. XIV. Stigmella, Stigmina, Camptomeris, Polythrincium, and Fusicladiella. Mycol. Pap., Kew, nr. 49. 1952, 25 p., 15 fig.

Hughes, S. J., Trichocladium Harz. Trans. brit. mycol. Soc. 35. 1952, 152—157, 4 fig.

Ito, K., and **Kontani, S.,** (The causal fungus of the web-blight (Rhizoctonia) of leguminous woody plant.) Rin-Go-Shiken-Hokoku 54. 1952, 45—78.

Johnson jr., T. W., and **Halpin, J. E.,** Influence of light on the morphology and production of conidia in some species of Dematiaceae. Phytopathology 42. 1952, 342.

Kalyanasundaram, R., Ascorbic acid and Fusarium wilted plants. Proc. indian Acad. Sci. (Sect.B.) 36. 1952, 102—104.

Katsuki, S., (Materials for Cercospora-flora of the Kanto district.) Ann. phytopath. Soc. Japan 17. 1952, 5—8, 2 fig.

King, T. H., Krog, N. E., and **Schroeder, H. W.,** The effect of copper on growth requirements of Coniothyrium fuckelii. Phytopathology 42. 1952, 468.

Lewis, R. W., The vitamin nutrition of Alternaria solani. Phytopathology 42. 1952, 657—659, 2 fig.

McAnelly, C. W., and **Thomas, W. D.,** Variable sensitivity of different strains of Fusarium species toward fungicides. J. Colorado-Wyoming Acad. Sci. 4. 1952, 72—73 (Abstr.).

Mahmud, K. A., A Cercospora leaf spot of Asystasia coromandeliana Nees. Sci. and Cult., Calcutta, 17. 1952, 474.

Marshall, N. L., and **Cox, C. E.,** The comparative effects of tribasic copper sulfate and of ziram on Colletotrichum phomoides in culture. Phytopathology 42. 1952, 470.

Moore, H., and **Chupp, Ch.,** A physiological study of the Fusaria causing tomato, cabbage and muskmelon wilts. Mycologia, Lancaster, 44. 1952, 523—532, 1 fig.

Müller, E., und **Biedermann, W.,** Der Einfluß von Cu^{+2}-Ionen auf den Keimungsablauf von Alternaria tenuis. Phytopath. Ztschr. 19. 1952, 343—350, 3 Abb.

Nishida, K., (The saprophytism of Colletotrichum sp.) Kyushu Noji Shikenjo 10. 1952, 153—155.

Petrak, F., Rhopaloconidium n. gen., eine neue Gattung der Mucedineen. Sydowia, Ann. mycol., 6. 1952, 299—301.

Peyronel, B., La forma ascofora di Valdensia heterodoxa Peyronel, tipo di un nuovo genere di Sclerotiniacee: Valdensinia. (The ascigerous state of Valdensia heterodoxa Peyronel, the type of a new genus of the Sclerotiniaceae: Valdensinia.) Nuovo Giorn. bot. ital. 59 (n. ser.). 1952, 181—185.

Porter, C. L., and **Green, R. J.,** Production of exotoxin in the genus Verticillium. Phytopathology 42. 1952, 472.

Rich, S., and **Horsfall, J. G.,** Tolerance of a black fungus to phenols and quinones. Phytopathology 42. 1952, 473.

Robert, A. L., Cultural and pathogenic variability in single-conidial and hyphal-tip isolates of Helminthosporium turcicum Pass. US Dept. Agric. Techn. Bull. 1058. 1952, 18 p.

Sauthoff, W., Über Stoffwechselprodukte bei Botrytis cinerea Pers. Phytopath. Ztschr. 19. 1952, 483—484.

Sebek, O. K., Physiological properties of Fusarium lycopersici and Fusarium vasinfectum. Phytopathology 42. 1952, 119—122.

Shaw, C. G., and **Hubert, E. E.,** A review of the Leptographium-Scopularia-Hantzschia nomenclature. Mycologia, Lancaster, 44. 1952, 693—704, 3 fig.

Sokolowa, W. E., and **Artsikhowskaia, E. W.,** (On temperature reaction of Botrytis cinerea respiratory process.) Dokl. Akad. Nauk SSSR 84. 1952, 177—180.

Subramanian, C. V., Fungi imperfecti from Madras. I, II. Proc. indian Acad. Sci. (Sect. B) 36. 1952, 43—53, 160—168, 12 fig.

Subramanian, C. V., Studies on South Indian Fusaria. I. Fusarium vasinfectum Atk., with a note on its varieties and forms. Proc. nat. Inst. Sci. India, Calcutta, 18. 1952, 273—285.

Subramanian, C. V., and **Ramakrishnan, K.,** Rostrospora, a new genus of the Melanconiales. J. Madras Univ. B 22. 1952, 66—68.

Swank, G., Variation of monosporous isolates of Colletotrichum phomoides. Ohiho State Univ. Abs. Doct. Diss. 63. 1952, 359—363.

Talboys, P. W., A method for the study of the effects of Verticillium toxins on the water relations of cut shoots. East Malling Res. Stat. Rept. 1951. 1952, 149—151, 3 fig.

Tamari, K., and **Kaji, J.,** (Studies on the mechanism of injurious action of fusarinic acid on plant-growth. Part 2. The action of fusarinic acid on the enzyme, which has no relation with metal-ion on its formation. Part 3. Studies on the injurious action of the substances on rice-seeds sprouting, which have analogous chemical structure with fusarinic acid.) J. agric. chem. Soc. Japan 26. 1952, 295—306.

Togashi, K., and **Katsuki, S.,** New or noteworthy Cercosporae from Japan. Bot. Mag., Tokyo, 65. 1952, 18—26, 12 fig.

Togliani, F., Determinazione del punto isometabolico per la Deuterophoma tracheiphila Allevata in substrati colturali a base glucosica. (Determination of „isometabolic point" for Deuterophoma tracheiphila grown in glucosidic media.) Ann. Sperim. agr., Roma, 6. (n. ser.). 1952, 1153—1160, 1 tab.

Togliani, F., (Experiments in control of Fusarium foot rot.) Riso 1. 1952, nr. 10, p. 14—16.

Turel, F., Der Einfluß von Aneurin und Zink auf das Wachstum und die Toxinproduktion von Fusarium solani (Mart.) App. et Wr. Phytopath. Ztschr. 19. 1952, 307—342, 15 Abb.

Vasudeva, R. S., Jain, A. C., and **Nema, K. G.,** Investigations of the inhibitory action of Bacillus subtilis on Fusarium udum Butl., the fungus causing wilt of pigeonpea (Cajanus cajan (L.) Millsp.). Ann. appl. Biol. 39. 1952, 229—238.

Walker, A. T., and **Smith, F. G.,** Effect of actidione on growth and respiration of Myrothecium verrucaria. Proc. Soc. exp. Biol., New York, 81. 1952, 556—559, 1 fig.

Wehmeyer, L. E., Some fungi imperfecti from Mt. Rainier National Park. Sydowia, Ann. mycol., 6. 1952, 433—442, 1 tab.

Wilhelm, St., and **Thomas, H. E.,** Solanum sarachoides, an important weed host to Verticillium alboatrum. Phytopathology 42. 1952, 519—520 (Abstr.).

Williams, L., and **Allison, P.,** The effect of conidial matrix, hydrogen ion concentration, and thiamine on spore germination and pathogenicity of Colletotrichum lagenarium. Phytopathology 42. 1952, 478.

Wilson, E. E., Preliminary study on the relation between carbohydrate-nitrogen supply and disease production by Hendersonula toruloidea. Phytopathology 42. 1952, 478.

Zamin Naqvi, S. H., The production of thiamin by Cercospora cruenta Sacc. Proc. canad. phytopath. Soc. nr. 20. 1952, 20 (Abstr.).

Varia

Brien, R. M., and **Reid, W. D.,** An investigation on control of mould fungi on cork inserts of crown tops. New Zealand J. Sci., Technol. B 33. 1952, 393—397. 1 fig.

Cash, E. K., A record of the fungi named by J. B. Ellis. Part I. Acanthostigma — Gymnosporium. Spec. Publ. Plant Dis. Surv. 2. 1952, 1—165.

Mitterer, J., Wurzelbrand und Drahtwurm. Dtsch. landw. Presse 75. 1952, 203.

Schmitthenner, A. F., Hydrolysis of pectin and cellulose by isolates of Colletotrichum phomoides, C. lagenarium, and Glomerella cingulata. Phytopathology 42. 1952, 474.

d. Phanerogamae

Anderson, E. G., The history of dodder in eastern Canada. Proc. nat. Weed Comm. (Canada), East. Sect., 1951. 1952, 79.

Asahina, Y., and **Kurokawa, S.,** (On the harmful effect of epiphytic lichens upon the higher plants.) I. Misc. Repts. Res. Inst. natural Resources, Tokyo, nr. 25. 1952, 83—86, 2 fig.

Blanchard, M., Comment lutter contre l'Orobanche spécieuse. Rev. agric. Afr. Nord 50. 1952, 184—186.

Bouffil, F., Jaubert, P., Méthodes de lutte contre les Striga parasites du mil. Bull. Bambey (Sénégal) Centre. Rech. agron. 6. 1952, 47—53.

Brown, R., Greenwood, A. D., Johnson, A. W., Lansdown, A. R., Long, A. G., and **Sunderland, N.,** The Orobanche germination factor. 3. Concentration of the factor by counter-current distribution. Biochem. J., Cambridge, 52. 1952, 571—574.

Brown, R., Johnson, A. W., Robinson, E., and **Tyler, G. J.,** The Striga germination factor. 2. Chromatographic purification of crude concentrates. Biochem. J., Cambridge, 50. 1952, 596—600.

Dovaston, H. F., and **Batts, C. C. V.,** A study of rusts found on Pedicularis. Trans. brit. mycol. Soc. 35. 1952, 129—143, 15 fig., 2 tab.

Gaertner, E. E., Observations on the host range of Cuscuta europea among the Compositae. Canad. J. Bot. 30. 1952, 682—684.

Ito, I., Über die Förderung der Samenkeimung einiger Cuscuta- und verwandter Arten. Saikyo Univ. Fac. Agric. Sci. Rept. 2. 1952, 10—16.

König, E., Mistelwurzeln im Holz. Norddsch. Holzw. 6. 1952, nr. 58, S. 3.

MacRae, J. W., The increase of dodder and suggestions for its control. Proc. nat. Weed Comm. (Canada), East. Sect., 5 (1951). 1952, 80—81.

Meenakshi, K., and **Rao, P. K.,** The occurrence of Striga on Cyanotis cucullata. Madras agric. J. 39. 1952, 490.

Nayar, B. K., and **Nayar, P. N.,** On the range of hosts of Cassytha filiformis Linn. Sci. and Cult., Calcutta, 17. 1952, 383—384.

Schenk, P. J., (Cuscuta.) Cult. en Handel 18. 1952, 285—287.

Schenk, P. J., (Cuscuta campestris.) Cult. en Handel 18. 1952, 407—408.

Solomon, S., Studies in the physiology of phanerogamic parasitism with special reference to Striga lutea Lour., and S. densiflora Benth. on Andropogon sorghum Hack. II. Proc. indian Acad. Sci. (Sect. B) 36. 1952, 198—214.

Stevens, O. A., Dodder (Cuscuta) on cultivated plants. Bi-mon. Bull. North Dakota agric. Exp. Stat. 15. 1952, 80—81.

Tiagi, B., Studies in the family Orobanchaceae. I. A contribution to the embryology of Cistanche tubulosa Wight. Lloydia, Cincinnati (Ohio), 15. 1952, 129—148, 75 fig.

Tschesalin, G. A., and **Duchanin, A. A.,** (Chemical measures for control of Cuscuta in the plantings of perennial grasses and legumes.) Sowietsk. Agron., Moskwa, 10. 1952, nr. 5, p. 65—72.

Verdcourt, B., Notes on tropical African dodders. [Cuscuta] East afr. agric. J. 18. 1952, 85—86.

Walzel, G., Colchicinierte Cuscuta. Phyton, Horn (Österr.), 4. 1952, 137—143.

Wendelbo, P., (Cuscuta campestris in Norway.) Blyttia, Oslo, 4. 1952, 106—107.

Wilson-Jones, K., Three experiments in witchweed control. [Striga hermonthica] Empire J. exp. Agric. 20. 1952, 98—102.

Klöversnärjan. (The clover dodder [Cuscuta trifolii Bab.].) Stat. Växtskyddsanst., Stockholm, Flygbl. 97. 1952, 4 p.

e. Unkräuter
Weeds — Mauvaises herbes

(Siehe auch — see also — voyez aussi p. 339.)

Allgemeiner Teil
General part — Partie générale

Balmos, D., Brushy problem. Texas Livestock J., Austin, 11. 1952, nr. 7, p. 7, 102.

Beck, T. V., The persistent perennial weed problem in the western Canadian provinces. Proc. north centr. Weed Control Conf. 9. 1952, 14—15.

Belozerov, P. I., (Dynamics of weed infestation of field soils in the central part of Vologda Region.) Dokl. Vsesoiuzn. Akad. Sel'skohoz. Nauk im. Len. (Proc. Lenin Acad. agric. Sci.) 17. 1952, nr. 3, p. 28—36.

Bruns, V. F., et al., Submersed aquatic weeds. Res. Progr. Rept. 13th west. Weed Control Conf., Reno (Nev.), 1952, 132—139.

Bullock, A. A., South African poisonous plants. Kew Bull. 1. 1952, 117—129.

Buttler, C. C., et al., Undesirable woody plants on irrigation system and irrigated lands. Res. Progr. Rept. 13th west. Weed Conf., Reno (Nev.), 1952, 63—70.

Choudhri, B. L., Weeds: enemy No. 1 of the farmer. Burma Comm. 3. 1952, 91.

Coupland, R. T., Dominion-financed weed surveys in western Canada, 1952. Proc. north centr. Weed Control Conf. 9 1952, 12—13.

Coupland, R. T., Life history studies of weeds. Proc. north centr. Weed Control Conf. 9. 1952, 35—36.

Courth, Unkraut in Getreide und auf Dauergrünland. Landw. Wochenbl. Westf., Lippe 109 A. 1952, 1098—1099.

Daniel, H. A., Brush, grass, beef and dollars. Amer. Forests 58. 1952, 12—14.

Del Cañizo, J., Las malas hierbas. [includes control] Hojas Divulg. Minist. Agric., Serv. Capac., Propag. (España) 17. 1952, 52H, 8 p.

De Vries, D. M., and **Zandstra, K. J.,** (Weeds in the course of the year.) Levende Natuur, Amsterdam, 55. 1952, 184—188.

Dunham, R. S., Annual, winter annual and biennial grassy and broadleaved weeds. North centr. Weed Control Conf. Res. Rpt. 9. 1952, 33—49.

Evans, M., Knowing poisonous plants. I—II. Horticulture (nat. ed.) 30. 1952, 274—276, 305, 307.

Felber, W., Landplage Unkraut. Dtsch. landw. Presse 75. 1952, 131, 1 Abb.

Gardner, C. A., Poison plants of Western Australia. J. Dept. Agric. West. Austr. 1. 1952, 855, 857, 859.

Hanson, H. L., Some observations on population dynamics of secondary woody vegetation. Proc. north centr. Weed Control Conf. 9. 1952, 51—53.

Higginbotham, A. L., Weeds from USSR invade range lands. West. Farm Life 54. 1952, nr. 3, p. 6, 23.

Hodgson, J. M., et al., Emergent aquatic weeds. Res. Progr. Rept. 13th west. Weed Control Conf., Reno (Nev.), 1952, 140—144.

Hofsten, C. G. v., Bedstraw — a weed problem that demands prompt attention. Lantmannen, Uppsala, 36. 1952, 329—330.

James, E., and **Alexander, E. D.,** Georgia weeds and how to control them. Georgia Agric. Coll. Exp. Bull. 502. 1952 97 p.

Jha, A., Common weeds of Bihar. Bihar agric. Coll. Mag. (India) 8. 1952, 16—21.

Kaul, R. N., and **Raheja, P. C.,** A review on weeds and their control. Sci. and Cult., Calcutta, 18. 1952. 124—129.

Kiffmann, R., Bestimmungsschlüssel der wichtigsten Ackerunkraut-Sämereien. Landbuch-Verlag, GmbH., Hannover 1952. 33 S., 86 Abb.

Kirste, Düngung und Unkrautwuchs. Dtsch. landw. Presse 75. 1952, 227.

Koblet, R., Effect of leys on the occurrence of weeds and some soil-borne diseases in subsequent crops. Intern. Grassland Conf. Abstr. Pap. 6. 1952, nr. I, p. 18.

Kojic, M. V., (Research on weeds in the vicinity of Belgrade.) God. Univ. Poljoprivredni Fak., Beograd, 4. 1952, 311—321.

Kunitake, M., (Observation on the seasonal variations of the weed species and their growth in Tikugo Plain.) Kyushu Noji Shikenjo 9. 1952, 111—112.

Lee, O. C., Noxious weeds of Indiana. Purdue Univ. agric. Ext. Bull. 246 (rev.). 1952, 23 p.

Levina, R. E., (On weeds in several sections of the State tree belt, Penza-Kamensk.) Bot. Zh. SSSR. 37. 1952, 19—31.

MacRae, J. W., New outlook on weeds. Ontario Crop Improvem. Assoc. (Potato Sect.) Addr., Proc. Ann. Meetg. 15. 1952, 75—78.

Martensen, Was sagen uns die Wiesenunkräuter? Mitt. dtsch. Landw.-Ges., Frankfurt/M., 67. 1952, 451—452, 9 Abb.

Matic, I., (Weeds an their destruction.) Vojvodanski Poljoprivrednik (Jugoslavija) 8. 1952, nr. 8/9, p. 4—5.

Milic, M., (The effect of metorological conditions on the character of weediness in crops.) God. Univ. Poljoprivredni Fak., Beograd, 4. 1952, 387.

Moati Grane, J. R., Plantas tóxicas para el ganado. Bol. Inform. Minist. Ganad., Agric. Uruguay 427. 1952, 4, 6.

Moore, D. M., Poisonous plants in Arkansas. Proc. Arkansas Acad. Sci. 5. 1952, 12 (Abstr.).

Myers, L. F., and **Moore, R. M.,** The effect of fertilizers on a winter weed population. J. austr. Inst. agric. Sci. 18. 1952, 152—155.

Naumann, D., Die Ackerunkrautgesellschaften des Bonner Raumes und ihre Beziehungen zum Standort. (Diss.-Auszug.) AID-Rundschau, Frankfurt/M., 2. 1952, Nr. 1, S. 3—4, 1 Abb.

Neuns, A. G., Woody plant control along roads in Shasta National Forest. Down to Earth, Midland (Michigan), 8. 1952, 14—15.

Nickell, L., 454 weed and how to control. Plants and Gard., New York, 8. 1952, 58—100.

Nugent, L. B. Public relations as it applies to roadside brush and weed control. Michigan Forestry, Park Assoc. Ann. Meetg. 26. 1952, 4—6.

Parks, D. L., Major weed problems in Ontario. Proc. nat. Weed Comm., East. Sect. (Canada), 5 (1951). 1952, 13—16.

Pridham, A. M. S., et al., Weeds of nurseries and landscape plantings. Proc. 6th Ann. Meetg. North East. Weed Control Conf., New York, 1952, 283—289.

Raabe, W. W., Unkraut kommt nicht aus dem Knick. Heimat, Kiel, 59. 1952, 149—151.

Reiter, C., Pflanzenlexikon. Verzeichnis der gärtnerischen Kulturpflanzen und ihrer Unkräuter. Gartenverlag, GmbH., Berlin-Kleinmachnow 1952. 263 S. (Berliner Gärtner-Bücher Bd. 18).

Rogenhofer, E., Einige seltenere Unkrautsamen im Saatgut. (Ein Beitrag zur Herkunftsbestimmung.) Bodenkultur, Wien, Sonderh. 3. 1952, 69—71.

Roland, A. E., Weed problems in Nova Scotia. Proc. nat. Weed Comm., East. Sect. (Canada), 5 (1951). 1952, 20—21.

Schlesing, O., Die Unkräuter des Gartens. Bayer. Landw.-Verlag, München 1952, 83 S., 20 Taf.

Singh, H. N., Reproductive capacity of weeds of arable land under rainfed conditions. Allahabad Farmer 25. 1952, 12—14.

Sissingh, G., Ethologische synoecologie van enkele onkruidassociaties in Nederland. (Synécologie éthologique des association messicoles et rudérales des Pays-Bas.) Meded. Landbouwhogesch. Wageningen 52. 1952, 167—206, 12 fig.

Slavnić, Ž., (Die Samenproduktion einiger Unkrautgesellschaften.) Proc. Matica Srpska (ser. natural Sci.), Novi Sad, 3. 1952, 64—86.

Slavnić, Ž., (Über die Ökologie und Biologie der Halmfrucht-Unkrautgesellschaften der Vojvodina.) Proc. Matica Srpska (ser. narutal Sci.), Novi Sad, 3. 1952, 86—100.

Stairs, H. F., Weed problems in New Brunswick. Proc. nat. Weed Comm., East. Sect. (Canada), 5. (1951). 1952, 17—19.

Thompson, M. M., Water and weeds Golden Gard. 16. 1952, nr. 9, p. 10—11, 23.

Thornton, B. J., Broadleaf perennial weeds. Res. Progr. Rept. 13th west. Weed Control Conf., Reno (Nev.), 1952, 1—15.

Tuplin, I. L., The weed situation in Prince Edward Island. Proc. nat. Weed Comm., East. Sect. (Canada), 5 (1951). 1952, 23—25.

Ujvárosi, M., Die Unkrautarten der ungarischen Ackerböden und ihre Lebensformanalyse. Acta agron. hung., Budapestini, 2. 1952, 237—274.

Van Brunt, E. R., Unusual herbs for the garden. Horticulture (nat. ed.) 30. 1952, 232, 245.

Van Fraassen, A. M., The seedling of the dicotyledonous farmland weeds (I). Meded. Landbouwvoorldienst, 's-Gravenhage, nr. 67. 1952, 35 p.

Webb, L. J., Nitrate content and toxicity of Queensland plants. J. austr. Inst. agric. Sci. 18. 1952, 164—167.

Welch, H., and **Morris, H. E.,** Range plants poisonous to livestock in Montana. Montana agric. Exp. Stat. Circ. 197. 1952, 35.

West, E., and **Emmel, M. W.,** Poisonous plants in Florida. Florida agric. Exp. Stat. Bull. 510. 1952, 57 p.

Zenkert, C. A., Local poisonous plants (exclusive of fungi). Sanctuary News 12. 1952, nr. 3. p. 3—8.

Zimmermann, P. W., Water weeds. Plants and Gard., New York, 8. 1952, 56—57.

Common farm weeds illustrated. Plant Protection, Ltd.. Butterworth 1952.

Unkraut-Fibel »Schering«. Schering-A. G., Abt. Pfl.-schutz, Berlin (West) 1952. 88 S., 32 Farbtaf.

Weeds. Dept. Agric., Dublin, Leafl. nr. 97. 1952, 4 p.

Weeds. A South Carolina handbook. Clemson Agric, Coll. (South Carolina) Ext. Bull. 113. 1952, 87 p.

Spezieller Teil
Special part — Partie spéciale

(Siehe auch — see also — voyez aussi p. 339.)

Amaranthaceae

Patel, M. K., Wandar, B. N., and **Kulkarni, Y. S.,** Bacterial leaf spot of Amaranthus viridis L. Indian Phytopath. 5. 1952, 146—151, 1 fig.

Pistor, W. J., Poisoning by pig weed or careless weed. [Amaranthus palmeri] Arizona Cattlelog 7. 1952, nr. 11, p. 55—56.

Anacardiaceae

Bragg, K. K., Effect of CMU on poison ivy. Proc. 5th Meetg. east. Sect. nat. Weed Comm., Quebec, 1951. 1952, p. 43.

Bragg, K. K., Progress report on poison ivy control. Proc. nat. Weed Comm. (East. Sect.), Canada, 5 (1951). 1952, 76—78.

Franklin, J. J., Another plant (Rhus trichocarpa) to be labeled poisonous. Plants and Gard., New York, 8. 1952, 271.

Hitchcock, A. E., Poison ivy and ragweed; how to kill poison ivy with 2, 4-D or ammate; how to make ragweed harmless with 2, 4-D. Plants and Gard., New York, 8. 1952, 46—48.

Kilgus jr., J. F., Three-fingered menace; a report on poison ivy. (Condensed.) Nat. Safety News, Chicago, 65. 1952, nr. 6, p. 28—29, 84—85.

Lesser, M. A., Poison ivy. [toxicity] Drug, Cosmetic Ind., New York, 70. 1952, 610—611, 686—692.

Meyer, F. G., Sumacs [Rhus] relatives of poison ivy. Aboretum Bull., Seattle (Wash.), 15. 1952, nr. 3. p. 16—21, 27.

Thomas, E. K., Do you know poison ivy? Horticulture (nat. ed.) 30. 1952, 309, 322.

Araliaceae

Home, J. M., Ivy (Hedera helix) as a forest weed. Scot. Forestry 6. 1952, 86—87.

Asclepiadaceae

Kohl, P. A., The angle-pod (Gonolobus laevis). Bull. Missouri bot. Gard. 40. 1952, 36—37.

Betulaceae

Fransson, P. Bekämpning av björk i Norrland medelst hormonderivat. (Control of birch in Northern Sweden with weed killers.) Meddel. Stat. Skogsforskn.inst. (Mitt. forstl. Forsch.anst.), Stockholm, 41. 1952, nr. 41, p. 1—20.

Boraginaceae

Orchard, H. E., Weeds of South Australia; yellow burr -weed (Amsinckia hispida Johnston). J. Dept. Agric. South Austr. 55. 1952, 358—359.

Cactaceae

Darrow, R. A., Chemical control of prickly pear-cactus. Proc. south. Weed Conf. 5. 1952. 159—161.

Campanulaceae

Kott, S. A., (Biological peculiarities of the weed, creeping bellflower (Campanula rapunculoides L.) and measures for its control.) Dokl. Vsesoûzn. Akad. Sel'skohoz. Nauk im. V. I. Lenina (Proc. Lenin Acad. agric. Sci.) 17. 1952, 33—37.

Caprifoliaceae

Japanese honeysuckle [Lonicera japonica] eradication, a preliminary report on the effectiveness of various weed killers. Pennsylv. Forests, Waters 4. 1952, 13, 24.

Chenopodiaceae

Armer, W., Halogeton, a stock-poisoning weed. Arizona agric. Coll. Ext. Circ. 1952, nr. 197, 4 p.

Bohmont, D. W., Halogeton (Halogeton glomeratus), new threat to rangeland. Crops and Soils, Madison, 4. 1952, nr. 6, p 16—18.

Cook, W., Stoddart, L. A., and **Hart, V. L.,** Good range management prevents losses from Halogeton [Halogeton glomeratus] poisoning. Farm, Home Sci. (Utah Stat.) 13. 1952, 25—26, 45.

Costello, D. F., The tumbling throng. [Salsola]. Nature Mag., Baltimore, 45. 1952, 301—303, 332.

Count, R. D., A killer pest. [Halogeton] Fuchsia Fan 12. 1952, nr. 2, p. 8.

Erickson, C., Morton, H. L., Tisdale, E. W., and **Zappettini, G.,** The present status of the Halogeton problem. Weeds 1. 1952, 321—328.

Compositae

Amann, F., Nochmals: Kampf dem Franzosenkraut. Feld u. Wald, Essen, 71. 1952, H. 13.

Bakker, D., Oecologie van klein hoefblad en de bestrijding van deze plant in den Noordoostpolder. (Ecology of the little coltsfoot (Tussilago farfara) and the control of this plant in the Northeastpolder.) Van Zee tot Land 7. 1952, 184 p.

Beck, E. G., A comparison of two stem galls on Solidago induced by the larvae of two different dipterous insects. [Eurosta sp.] J. Tennessee Acad. Sci. 27. 1952, 200.

Bellue, M. K., Virgate starr thistle, Centaurea virgata var. squarrosa (Wild.) Boiss. in California. Bull. Dept. Agric. Calif. 41. 1952, 61—63.

Brown, A. L., Control burroweed (Aplopappus fruticosus) with 2, 4-D. Progr. Agric. Arizona 3. 1952, nr. 4, p. 12.

Callantine, E. J., Curlycup gumweed (Grindelia squarrosa). South Dakota Stockgrower 6. 1952, nr. 9, p. 16.

Campagna, E., Ragweed pollen survey in eastern Canada for 1950. Proc. nat. Weed Comm., East. Sect. (Canada), 5 (1951). 1952, 82—94.

Enge, G., (Fallowing-effective weapon against quick-weed.) [Galinsoga] Kvart.skr. Kalmar Läns Norra Hushsålln. sällskap. (Sverige) 12. 1952, 84—86.

Fedorov, A. A., (Natural »group« planting and self-grafting of roots of dandelions.) [Taraxacum — due to clay soils and tramping of cattle] Bot. Zh. SSSR 37. 1952, 856—858.

Foster, J. R., Canada [Cirsium arvensis] and perennial sow [Sonchus arvensis] thistle. North. centr. Weed Control Conf. Res. Rpt. 9. 1952, 23—26.

Hitchcock, A. E., Poison ivy and ragweed; how to kill poison ivy with 2, 4-D or ammate; how to make ragweed harmless with 2, 4-D. Plants and Gard., New York, 8. 1952, 46—48.

Kersting, F., Versuche zur Bekämpfung von Petasites officinalis Mnch. [2, 4 D-2, 4, 5 T-Estermischpräparate] Nachr.bl. dtsch. Pfl.schutzd., Braunschweig, 4. 1952, 167—168, 4 Abb.

Kissinger jr., N. A., Hull jr., A. C., and **Vaughn, W. T.,** Chemical control of big sagebrush [Artemisia tridentata] in central Wyoming. US Forest Serv. Rocky Mountain Forest, Range Exp. Stat., Fort Collins (Colorado), Stat., Pap. 9. 1952, 15 p.

Lee, O. C., Canada thistle [Cirsium arvense] control. Purdue Univ. agric. Ext. Leafl. 345. 1952, 4 p.

Longchamp, R., Roy, M., et **Gautheret, R. J.,** Recherches sur l'action du 2, 4 D et du MCPA sur Chrysanthemum segetum L. Ann. Amélior. Plantes, Paris, 2. 1952, 329—335, 2 fig.

Mellini, E., Insetti del Carduus nutans L. I., II. Boll. Ist. Ent. Univ. Bologna 18. 1950—1951, 272—292, 12 fig.; 319—349, 17 fig.

Morozova, O. I., (Use of herbicide to control the poisonous plant Ceratocephalus falcatus.) Kormovaîa Baza (russ.) 3. 1952, nr. 10, p. 21—23.

Nieser, O., Helminthia echioides Gaertn. (Picris echioides L.), Natterkopfartiges Wurmkraut. Saatgut-Wirtschaft, Stuttgart, 4. 1952, 280.

Parry, J., The plain weed, goldenrod. Horticulture (nat. ed.) 30. 1952, 335.

Peeters, F. J., (Thistles.) Cult. en Handel (flem.) 18. 1952, 536—537.

Perlman, F., Ragweed invasion of Oregon. J. Allergy, St. Louis, 23. 1952, 452—457.

Potuljnitskij, P. M., (On the origin of non-rubber yielding dandelions [Taraxacum] which infest koksaghyz.) Agrobiologiia, Moskwa, 2. 1952, 45—54.

Puliga, E. Q., (Observations on cardoon-thistle.) Humus, Milano, 8. 1952, nr. 12, p. 28—29.

Richardson, J. M., Weeds of South Australia: saffron thistle (Carthamus lanatus L.). J. Dept. Agric. South Austr. 56. 1952, 189, 191.

Sperry, O. E., and **Morrow, J.,** Quality and quantitiy of seed from bitterweed (Actinea odorata) killed with herbicides. Texas agric. Exp. Stat. Progr. Rept. 1447. 1952, 3 p.

Whitworth, S. E., Sagebrush control in Beaverhead County. Montana Wool Grower 26. 1952, nr. 11, p. 24—26.

Convolvulaceae

Cincovic, T., (Contribution à la connaissance de la reproduction végétative du liseron.) [Convolvulus arvensis L.] God. Univ. Poljoprivredni Fak., Beograd, 4. 1952, 269—279.

Hamilton, R. D., Whitfield, C. J., and **Rea, H. E.,** Effects of concentrated borascu and sodium chlorate on the control of bindweed. [Convolvulus arvensis] Texas agric. Exp. Stat. Progr. Rept. 1523. 1952, 3 p.

Rea, H. E., Hamilton, R. D., and **Thornton, M. K.,** Field bindweed (Convolvulus arvensis). Texas agric. Coll. Ext. Bull. 199. 1952, 12 p.

Zahnley, J. W., Field bindweed. [Convolvulus arvensis] North Centr. Weed Control Conf. Res. Rept. 9. 1952, 19—22.

Cruciferae

Cock, R. E., Some cruciferous weeds. [Sinapis arvensis, Raphanus raphanistrum, Brassica camprestris] Tasmanian J. Agric. 23. 1952, 174—177.

Corns, W. G., and **Frankton, C.,** Hoary cresses in Canada with particular reference to their distribution and control in Alberta. Sci. Agric., Ottawa, 32. 1952, 484—495.

Hodgson, J. M., Controlling white top (Cardaria draba) with cropping, tillage and 2, 4-D treatments. Proc. Oregon Seed Growers League 11. 1952, 43, 45, 47—48.

Lindsay, D. R., and **Bassett, I. J.,** Preliminary report on the life history of yellow rocket. [Barbarea vulgaris R. Br.] Nat. Weed Comm., East. Sect. (Canada), 5. (1951) 1952, 73—75.

Orchard, H. E., Weeds of South Australia; slender perennial pepper cress (Lepidium latifolium, L.). J. Dept. Agric. South Austr. 55. 1952, 295—296.

Richardson, J. M., Short-fruited wild turnip (Rapistrum rugosum All.). J. Dept. Agric. South Austr. 56. 1952, 73—74.

Richardson, J. M., Ward's weed (Vella annua L.). J. Dept. Agric. South Austr. 55. 1952, 561—562.

Egge gegen Hederich. Dtsch. landw. Presse 75. 1952, 102.

Cyperaceae

Albert, W. B., Harris, V. C., and **Loustalot, A. J.,** Nutgrass. Proc. south. Weed Conf. 5. 1952, 196.

Carilli, A., Prove di lotta contro il Cyperus rotundus L. per mezzo di fumiganti del suolo. (Trials for the control of nut grass (Cyperus rotundus L.) with soil fumigants.) Ann. Sperim. agr., Roma, 6. (n. ser.) 1952, 1161—1171, 3 fig.

Dotzenko, A. D., and **Whitworth, J. W.,** CMU for nut grass (flatsedge nut grass) control (preliminary report). New Mexico agric. Exp. Stat. Press Bull. 1067, 1952, 2 p.

Pinheiro, J. V., e **Krug, H. P.,** Alguns herbicidas modernos no contrôle da tiririca (Cyperus rotundus L.). (Some modern herbicides used in the control of nut grass (Cyperus rotundus L.).) Co. Paulista Estradas Ferro, Serv. Florestal, Bol. 3. 1952, 16 p.

Royce, R. D., Poison sedge and cyanogenesis. J. Dept. Agric. West. Austr. (ser. 3) 1. 1952, 497—500.

Thakur, C., Effect of MCP on nut grass. [Cyperus rotundus] Agron. J., Washington, 44. 1952, 589—590.

Euphorbiaceae

Bailey, J. S., Poison ivy [Toxicodendron radicans] identification, precautions, eradication. Massachus. Univ. agr. Ext. Spec. Circ. 190. 1952, 2 p.

Count, R. D., Tree of venom (Hippomane mancinella). Fuchsia Fan 12. 1952, 10.

Derscheid, L. A., Leafy spurge. [Euphorbia esula] North Centr. Weed Control Conf. Res. Rept. 9. 1952, 15—18.

Grimm, W. C., Beware of the green demons: poison ivy (Toxicodendron radicans) and its kin. Pennsylv. Game News 23. 1952, nr. 2, p. 5—7.

Krochmal, A., Seeds of weedy Euphorbia species and their identification. Weeds 1. 1952, 243—256.

Switzer, C. M., and **Bibbey, R. O.,** Translocation of herbicides in leafy spurge. [Euphorbia esula] Proc. north centr. Weed Control Conf. 9. 1952, 32.

Fagaceae

Allred, B. W., Post oak and blackjack oak. Sheep, Goat Raiser (Oregon) 32. 1952, nr. 8, p. 22—23.

Coulter, L. L., Two primary factors influencing results in the control of oak during the dormant period. [Quercus alba] Down to Earth, Midland (Michigan), 7. 1952, 2—3.

McCully, W. G., and **Darrow, R. A.,** Control of post and blackjack oaks with growth-regulator herbicides. Proc. south. Weed Conf. 5. 1952, 137—140.

Young, V. A., Desirable grasses increase after post oak control. Texas agric. Exp. Stat. Progr. Rept. 1448. 1952, 7 p.

Gramineae

Åberg, E., Knutsson, G., and **Roland, M.,** (Isopropyl phenyl carbamate against wild oats.) Växtodling, Uppsala, 7. 1952, 25—39.

Arashi, K., and **Kunitake, M.,** (Effect of fertilizer element on the emergence and growth of weeds (Alopecurus aequalis Sobol.) in arable land.) Kyushu Noji Shikenjo 10. 1952, 171—172.

Arceneaux, G., Hebert, L. P., and **Matherne, R.,** A new approach to an old problem-fallow flooding for Johnson grass control. Sugar Bull. 30. 1952, 310, 314—316.

Arle, H. F., et al., Perennial weedy grasses. [Agropyrum repens] Res. Progr. Rept. 13th west. Weed Control Conf., Reno (Nev.), 1952, 16—20.

Bashford, H., The villainies of couch grass (Agropyrum repens). Country Life, London, 111. 1952, 421.

Birukowa, W. S., (Chemical control of quakgrass.) Les i Step' (USSR) 4. 1952, nr. 14, p. 74.

Blake, L. V., and **Free, M.,** A pair of two-year reports on 2 crab-grass killers from that best of all laboratories, the home lawn. Home Garden 19. 1952, nr. 6, p. 66—69.

Blouch, R. M., The herbicidal control of annual grass weeds. J. Colorado-Wyoming Acad. Sci. 4. 1952, 67—68 (Abstr.).

Blouch, R., and **Fults, J. L.,** Correlation between soil type and rates of sodium TCA and 3-chloro IPC application for pre-emergence grass control. Proc. amer. Soc. Sugar Beet Technol. 7. 1952, 136.

Blouch, R., Fults, J. L., and **Thornton, B. J.,** Chemical control of annual grasses in alfalfa, sugar-beets, onions, and certain truck crops. Proc. amer. Soc. Sugar Beet Technol. 7. 1952, 137.

Blümke, Ein neues Unkraut in Deutschland! [Avena tuberosum] Dtsch. landw. Presse 75. 1952, 299, 2 Abb.

Brown, D. A., Wild oats—cultural control. Proc. north centr. Weed Control Conf. 9. 1952, 22—23.

Buchholtz, K. P., Living with quackgrass. Hoard's Dairyman 97. 1952, 722.

Carder, A. C., Quack or couch grass. [Agropyrum repens] North centr. Weed Control Conf. Res. Rept. 9. 1952, 1—11.

Cohen, G., (Oil fortified by D-2,4 ester for the control of the commen reed.) Hassadeh, Tel-Aviv, 32. 1952, 297—298.

Cross, C. E., Weeds of the Massachussetts cranberry bogs. I. The grasses. Massachus, agric. Exp. Stat. Bull. 463. 1952, 55 p.

Downie, A. R., Experimental results on grass control. Crystal-ized Facts Sugar Beets 6. 1952, nr. 2, p. 27—29.

Elder, W. C., Sorghums. North centr. Weed Control Conf. Res. Rept. 9. 1952, 98—99.

Engel, R. E., Controlling crab-grass (Digitaria) in the lawn. New York agric. Coll. Ext. Leafl. 92. 1952, 7 p.

Engel, R. E., Research big need on Poa annua chemical control. Golfdom 26. 1952, nr. 3, p. 64, 66.

Farnham, M., Continuing program needed to eradicate Poa annua. Golfdom 26. 1952, nr. 4, p. 87—89.

Furbush, P. B., Controlled burning most effective method of eliminating stands of Medusa-head weed. [Elymus caput-medusae] Calif. Cattleman 1952, 9.

Gallagher, J. E., and **Mahdi, M. Z.,** Crab-grass trials of 1951. South. Calif. Turf Cult. 2. 1952, nr. 2, p. 1—2.

Gianfagna, A. J., and **Pridham, A. M. S.,** Some aspects of dormancy and germination of crab-grass seed. Digitaria sanguinalis Scop. Northeast. Weed Control Conf. Proc. 6. 1952, 321—326.

Jetne, M., (Wheatgrass, a troublesome weed.) Landbrukstidende (Norge) 58. 1952, 391.

Kenney, R., Hansen, J. R., and **Freeman, J. F.,** Giant foxtail. [Setaria faberii] Kentucky agric. Coll. Ext. Leafl. 132. 1952, 8 p.

King, L. J., Germination and chemical control of the giant foxtail grass. Contrib. Boyce Thompson Inst. 16. 1952, 469—487.

König, F., Die weiche Trespe, ein unerwünschtes Gras lückig gewordener Wiesen und Weiden. Allgäuer Bauernbl. 20. 1952, 138—139.

Lafkin, W. E., The theory and practice of crab-grass control. White Plains, New York 1952. Rev. ed., 11 p.

Lee, O. C., Johnson grass (Sorghum halepense). North centr. Weed Control Conf. Res. Rept. 2. 1952, 12—14.

Leggett, H. W., Chemical control of wilt oats (Avena fatua). Proc. north centr. Weed Control Conf. 1952, 23—25.

Leonard, O. A., Harris, V. C., The effect of aliphatic hydrocarbons on the hypocotyls of cotton and soybeans and on the shoots of nut grass, Johnson grass and other weeds by the directional spray technique. Weeds, New York, 1. 1952, 256—273.

Lowe, H. J., and **Buchholtz, K. P.,** Cultural methods for control of quackgrass. Weeds 1. 1952, 346—351.

Marini, E., Prove di diserbo chimico contro Panicum sp. Not. Malattie Piante No. 19. 1952, 21—23.

Meyer-Bahlburg, W., Ein neues Unkraut in Deutschland. [Avena tuberosa] Dtsch. landw. Presse 75. 1952, 335.

Myers, L. F., The toxity of oil herbicides to Paspalum dilatatum Poir.: effect of composition of the oil. Austr. J. agric. Res. 3. 1952, 372—384.

Moore, R. M., and **Myers, L. F.,** Trichloroacetates and other herbicides for the control of Johnson grass (Sorghum halepense (L.) Pers.). J. austr. Inst. agric. Sci. 18. 1952, 95—98.

Naundorf, G., Lucha contra el arroz rojo con derivados del 2, 4-D mediante avionetas de fumigación. Acta agron. (Columbia) 2. 1952, 151—159.

Neill, J. C., Note on agronomic effect of the endophyte of Lolium perenne. New Zealand J. Sci., Technol. (A) 34. 1952, 230.

Neiger, Y., (The control of Bermuda grass in the Negev.) Hassadeh, Tel-Aviv, 33. 1952, 176—179.

Nohara, Y., (Herbicide for bamboo-grass.) Jap. J. Plant Prot. 36. 1952, 266—268.

Noilhan, H., L'utilisation des hormones en agriculture et ses conséquences juridiques. Compt. rend. Acad. Agric. France 39. 1952, 432—433.

Oberlaender, Fleischel, H., und Dinter, F., Queckenbekämpfung. Dtsch. landw. Presse 75. 1952, 66.

Ogden, D. B., Progress report on grass control with TCA Crystal-ized Facts Sugar Beets 6. 1952, nr. 4, p. 18—19.

Ortíz Garmendía, J., Gramíneas de importancia tóxica secundaria. Campesino, Santiago, 84. 1952, nr. 8, p. 51.

Ortíz Garmendía, J., Gramíneas tóxicas para el ganado. II. IV. V. Campesino, Santiago, 84, 1952, nr. 4, p. 19, 21; nr. 6, p. 27—28; nr. 7, p. 19.

Pawlow, I. P., (Wild oat and measures for controlling it.) Sowietsk. Agron., Moskwa, 10. 1952, nr. 3. p. 62—69.

Radko, A. M., and **Grau, F. V.,** National coordinated crab-grass trials. USGA J. (US Golf Assoc.), Turf Managem. 5. 1952, nr. 2, p. 29—31.

Rea, H. E., Wolters, F. A., and **Roberts, J. E.,** Chemical control of established Johnson grass (Sorghum halepense) on non-cultivated land. Texas agric. Exp. Stat. Progr. Rept. 1430. 1952, 5 p.

Riepma, P., (Control of Avena fatua.) Maandbl. Landbouwvoorl.dienst, 's-Gravenhage, 9. 1952, 151—153.

Rummell, R. S., Eliminate cheatgrass (Bromus tectorum) before reseeding. Idaho Farmer 70. 1952, 601.

Schwerdt, Der Windhalm — ein lästiges Unkraut! Landw. Wochenbl. Kurh., Waldeck 167. 1952, 1581.

Sealine, E. O., The professional touch; how chemicals help homeowners control crab-grass. Du Pont Mag. 46. 1952, nr. 3, p. 24—25.

Smirnov, B. M., (Fallow tillage on the lands infested with wild oats in the South-East of USSR.) Sowietsk. Agron., Moskwa, 10. 1952, nr. 8, p. 77—81.

Timmons, F. L., India fights a land invader. [Saccharum spontaneum] Foreign Agric., Washington, 16. 1952, 99—102.

Twombly, A. R., Reduces Poa annua in greens. Golfdom 26. 1952, nr. 7, p. 67—69.

Van Alphen de Veer, E. J., and **Vink, A. P. A.,** Bestrijding van alang-alang met mechanische en chemische middelen. (Mechanical and chemical control of lalang grass.) [Imperata cylindrica] Bergcultures, Batavia, 21. 1952, 468—481. — Tectona, Semarang, 12. 1952, 97—116.

Watson jr., J. R., and **Cook, E. D.,** Chemical control of crab-grass [Digitaria] in special purpose turf. Texas agric. Exp. Stat. Progr. Rept. 1450. 1952, 3 p.

Wiancko, M. R., Observations of the effect of CMU on couch grass. Proc. nat. Weed Comm., East. Sect. (Canada), 5 (1951). 1952, 38.

Wood, H. E., The occurrence and the problem of wild oats in the weed conference area. Proc. north centr. Weed Control Conf. 9. 1952, 20.

Woodward, C. H., You can control crab-grass. House and Garden, New York, 101. 1952, nr. 6, p. 132, 141.

Erfolgreiche Bekämpfung der Quecke. Rhein. Bauernztg. 6. 1952, 225.

Gymnospermae

Beveridge, W. M., Juniper control. Arizona Cattlelog 7. 1952, nr. 7, p. 52—56.

Schaus, R. G., Juniper eradication in the West. Amer. Cattle Producer, Denver, 34. 1952, nr. 6, p. 11—12.

Waldrip, W. J., and **Wilson, D. G.,** What is being done about cedar? [Juniperus] Sheep, Goat Raiser (Oregon) 32. 1952, nr. 8, p. 28, 31.

Hypericaceae

Clark, L. R., and **Clark, N.,** A study of the effect of Chrysomela hyperici Forst. on St. John's wort (Hypericum) in the Manus Valley, N. S. W. Austr. J. Agric. Res. 3. 1952, 29—59.

Evanko, A. B., Will beetles lick goatweed (Hypericum perforatum)? Washington Farmer 77. 1952, 512—513, 516.

Woolfolk, E. J., Goatweed [Hypericum perforatum] threatens Montana ranges. Montana Wool Grower 27. 1952, 16—17.

Labiatae

Johnson, A., Mintweed [Salvia reflexa] in the North-West. Agric. Gaz. New South Wales 63. 1952, 453—456, 504.

Pfeiffer, R., Die chemische Bekämpfung des Ackerhohlzahns — ein Weg zu höheren Erträgen im alpenländischen Getreidebau. Pflug, Wien, 5. 1952, Nr. 2, S. 33—36.

Leguminosae

Bramble, W. C., and **Worley, D. P.,** Control of black locust with chemical spray. [Robina pseudacacia] Pennsylv. agric. Exp. Stat. Progr. Rept. 72. 1952, 5.

Caballero, J. B., Fuente potencial de riqueza: el marabú. [utilization of this weed, which is a shrub of the Mimosa family] Habano, Rev. tobac. (Cuba), 18. 1952, nr. 7, p. 30—31.

Fisher, C. E., Phillips, W. M., Meadors jr., C. H., Darrow, R. A., and **Mc Cully, W. G.,** Mesquite control, cooperative ranch tests, 1950—51. Texas agric. Exp. Stat. Progr. Rept. 1465. 1952, 10 p.

Gardner, C. A., The wedge-leaved rattlepod (Crotalaria retusa L.), a poison plant of tropical Australia. J. Dept. Agric. West. Austr. (ser. 3) 1. 1952, 641, 643, 645—647.

Gardner, C. A., and **Bennetts, H. W.,** Poison plants of Western Australia; the toxic plants of the genera Gastrolobium and Axylobium. J. Dept. Agric. West. Austr. (ser. 3) 1. 1952, 481—483, 485—487, 489—491, 493—495.

Gardner, C. A., and **Bennetts, H. W.,** Poison plants of Western Australia; toxic plants of the genus Isotropis. J. Dept. Agric. West. Austr. (ser. 3) 1. 1952, 219—221, 223—226.

Humphrey, R. R., Control mesquite by fire. Progr. Agric. Arizona 4. 1952, nr. 3, p. 10, 12.

Humphrey, R. R., Fire is potent weapon-mesquite eradication. West. Livestock 38. 1952, nr. 3, p. 160—161.

Jackson, W. S., Would you trade mesquite for beef? [chemical control] New Mexico Stockman 17. 1952, nr. 3, p. 92, 94—95.

Kersting, F., Versuche zur Bekämpfung des Besenginsters (Sarothamnus scoparius). Nachr.bl. dtsch. Pfl.schutzd., Braunschweig, 4. 1952, 137—140.

Norris, J. J., Mesquite (Prosopis) finds its match with 2, 4, 5-T. West. Farm Life 54. 1952, nr. 4, p. 5, 15.

Norris, J. J., A summary of mesquite control trials on the New Mexico College ranch. Cattleman, Fort Worth (Texas), 38. 1952, nr. 9, p. 175—177.

Payne, G. F., and **Warden, R. L.,** Chemical control of white loco (Oxytropis sericea). Progress report for 1950—1951. Montana agric. Exp. Stat. Mimeogr. Circ. 65. 1952, 2 p.

Pryor, M. R., and **Dana, R. H.,** Gorse control. Bull. Dept. Agric. Calif. 41. 1952, 43—45.

Silk, E. E., Mesquite control. Texas Hereford 2. 1952, nr. 4, p. 5.

Warmke, H. E., Discussion of "assaying toxicity in legumes by chick test". Int. Grassland Conf. Abstr. Pap. 6 (L). 1952, 32—33.

Liliaceae

Everson, L. E., Wild garlic (Allium vineale) bulblets in Kentucky bluegrass. News Letter Assoc. off. Seed Analysts North Amer. 26. 1952, 13—15.

Lee, O. C., and **Zalik, S.,** Wild garlic [Allium vineale] control. Purdue Univ. agric. Ext. Leafl. 341. 1952, 4 p.

Mathieu, A. M., The onion dies. [Allium vineale] Farm Quart., Cincinnati, 7. 1952, nr. 4, p. 36—39, 91—93.

Polygonaceae

Giraldo, C., Control de gualola o gloria. [Polygonum segetum] Agríc. trop. (Colombia) 8. 1952, nr. 3, p. 9—12.

Green, K. R., The weed patch: smart weed or water pepper (Polygonum spp.). Milk Board J. 3. 1952, nr. 11, p. 19.

Wood, H. E., and **Craig, H. A.,** Tartary buckwheat (Fagopyrum tartaricum). Manitoba Dept. Agric., Immigr. Publ. 248. 1952, 2 p.

Pontederiaceae

Luethy, D. R., 2, 4-D vs. the hyacinth (Eichhornia crassipes). Florida Wildlife 6. 1952, nr. 3, p. 22—24.

Pteridophyta

Bresler, R., (Scottish bracken; new menace rears its head.) [Pteridium aquilinum] Landbouwweekblad, Bloemfontein, 33. 1952, nr. 1709, p. 11.

Green, K. R., The weed patch: bracken (Pteridium aquilinum). Milk Board J. 3. 1952, 27.

Holz, W., und **Richter, W.,** Versuche mit 2, 4 D zur Bekämpfung des Duwocks (Equisetum palustre L.). Landw. Forsch., Darmstadt, 4. 1952, 177—182.

Home, J. H. M., Bracken [Pteridium aquilinum] control. Scot. Agric., Edinburgh, 31. 1952, 184—189.

Plant, W., Hormones kill horsetail (Equisetum). Farmer and Stock-Breeder, London, 66. 1952, nr. 3248, p. 34—35.

Plant, W., A weed by any name. [control of Equisetum palustre with methoxone] Farmers' Weeky, London, 37. 1952, nr. 5, p. 57.

Senaratne, J. E., Preliminary trials for the control of the water fern (Salvinia). Trop. Agriculturist (Ceylon) 108. 1952, 49—50.

Skerman, K. D., and **Newton, L. G.,** Bracken [Pteridium] fern poisoning of cattle. Queensland agric. J. 74. 1952, 163—167.

Sonneveld, F., Ecology and control of Equisetum palustre L. Versl. Centr. Inst. landbouwkdg. Onderz. 1952, 29—35.

Wood, H. E., Field horsetail (Equisetum arvense L.). Manitoba Dept. Agric., Immigr. Publ. 247. 1952, 2 p.

Ranunculaceae

Bergmark, M., (The deathly poisonous monkshood.) [Aconitum napellus] Trädgårdstidningen, Jönköping, 24. 1952, nr. 7, p. 7—8.

Evanko, A. B., Will 2, 4-D control Sierra larkspur? [Delphinium glaucescens] US Forest Serv. North. Rocky Mountain Forest, Range Exp. Stat. Res. Note 109. 1952, 6 p.

Krautzer, H., Bekämpfungsmöglichkeiten des scharfen Hahnenfusses. Kärntner Bauer 102. 1952, 309—310.

Marki, H., Über das Auftreten und die Bekämpfung des scharfen Hahnenfusses. [Ranunculus acris] Schweiz. landw. Ztschr. »Grüne« 80. 1952, 281—823.

Slaats, M., La destruction des renoncules. Rev. Agric., Bruxelles, 5. 1952, 725—726.

Tomaselli, R., Relazione su esperienze sul trattamento diserbante estivo-autunnale dei Ranuncoli infestanti i prati nel pavese. Not. Malattie Piante nr. 19. 1952, 43—47.

Rhamnaceae

Fallis, K. E., Progress report on the control of buckthorn (Rhamnus cathartica). Proc. 5th Meetg. east. Sect. nat. Weed Comm., Quebec, 1951. 1952, 125—127.

Rubiaceae

Lysebråte, K., (Bedstraw [Galium] in the seed field.) Samvirke, Oslo, 47. 1952, 309—310.

Scrophulariaceae

Wilson-Jones, K., Three experiments in witchweed [Striga hermonthica] control. Empire J. exp. Agric. 20. 1952, 98—102.

Solanaceae

Gardner, C. A., and **Bennetts, H. W.,** Poison plants of Western Australia. I. Pituri (Duboisia hopwoodii [F. Muell.] F. Muell.). J. Dept. Agric. West. Austr. 1 (n. ser.). 1952, 53—56.

Umbelliferae

Cooper, P., Poisoning by umbelliferous plants. Pharm. J., London, 169. 1952, nr. 4627, p. 18.

Vidme, T., (Bishops goutweed (Aegopodium podagraria).) Norsk Hagetidend, Oslo, 68. 1952, 107—108. — Samvirke, Oslo, 47. 1952, 268—269.

Urticaceae

Ivins, J. D., Concerning the ecology of Urtica dioica L. J. Ecol., Cambridge, 40. 1952, 380—382.

Varia

Chevalier, A., Deux composèes permettant de lutter contre l'Imperata et empêchant la degradation des sols tropicaux qu' il faudrait introduire rapidement en Afrique noire. [Eupatorium odoratum, Tithonia diversifolia] Rev. int. Bot. appl., Agric. trop., Paris, 32. 1952, 494—496.

Coupland, R. T., Hoary cress [Lepidium draba], Russian knapweed [Centaurea repens], toadflax [Linaria vulgaris], and all other upland perennial herbaceaus weeds. North centr. Weed Control Conf. Res. Rept. 9. 1952, 27—32.

Green, K. R., and **Dawson, G. T.,** Cape tulip, Homeria spp. Agric. Gaz. New South Wales 63. 1952, 170—172.

Kühl, Alpenampfer, Alpenkreuzkraut, Brennessel und Eisenhut als Unkrautpflanzen der Alpe und deren Bekämpfung. Auf der Alpe 12. 1952, 89—93.

McCully, W. G., Tynan, J. A., and **Perry, B. A.,** Reaction of white brush [Aloysia ligustrina] to growth-regulator herbicides. Texas agric. Exp. Stat. Progr. Rept. 146. 1952, 3 p. — Texas Livestock J. 11. 1952, nr. 9, p. 20, 22.

Muenscher, W. C., Hibiscus trionum (Flower-of-an-hour). New York agr. Coll., Dept. Bot., Bot. L. 41. 1952, 1 p.

Nicolini, J. C., Musgos y liquenes; generalidades, importanica y control. Chacra, Buenos Aires, 22. 1952, nr. 259, p. 28.

Robertson-Cuninghame, R. C., and **Blackman, G. E.,** Effects of preliminary treatment on the subsequent variation in the resistance of Lemna minor to the phytotoxic action of 2,4-dichlorophenoxyacetic acid. Nature, London, 170. 1952, 459.

Seale, C. C., Randolph, J. W., and **Stephens, J. C.,** Aromatic solvents for the control of the submersed water weed Naiad, Najas guadalupensis (Spreng.) Morong., in South Florida. Weeds 1. 1952, 366—371.

Stewart, W. S., Gammon, C., and **Hield, H. Z.,** Deposit of 2, 4-D and kill of wild grape vines by helicopter spray application. Amer. J. Bot. 39. 1952, 1—5, 2 fig.

La **marihuana** y como descubrirla. Costa Rica Minist. Agric., Ind. Bol. Divulg. 12. 1952, 7 p.

5. Tierische Feinde
Animal parasites — Parasites animaux

a. Nematodes

Alexander, C. P., Undescribed species of nematocerous Diptera. I. [in Trichocera, Philorus, Blepharocera and Curupira] Bull. Brooklyn ent. Soc. 47. 1952, 88—94.

Allen, M. W., Observations on the genus Meloidogyne Goeldi 1887. Proc. helminth. Soc. Washington 19. 1952, 44—51.

Allen, M. W., Root-knot and root-lesion nematodes; soil fumigation reduces infestations but cannot be used in growing orchards or vineyards. Grower, Adelaide, 7. 1952, nr. 2, p. 14, 16.

Allen, M. W., Taxonomic status of the bud and leaf nematodes related to Aphelenchoides fragariae (Ritzema Bos, 1891). Proc. helminth. Soc. Washington 19. 1952, 108—120.

Anderson, C. G., Plant diseases and nematodes. Oregon Dept. Agric. agric. Bull. 174. 1952, 19—20.

Andrássy, I., Freilebende Nematoden aus dem Bükk-Gebirge. Országos Természettudományi Múzeum Évkönyve (Ann. hist. -natur. Musei nat. hung.), Budapest, 2 (n. ser.). 1952, 13—65, 28 fig.

Boyle, L. W., The nematode problem in home gardens. Georgia agric. Exp. Stat. Press Bull. 635. 1952, 3.

Cairns, E. J., Anabiotic survival of a new species of Ditylenchus nematode. Phytopathology 42. 1952, 464.

Carroll, J., Eelworm and insect pests. I. The root eelworms (Heterodera). II. Stem, leaf, bud and flower eelworms. III. Sap sucking insects. Agric. Ireland 9. 1952, 172—173, 201—203, 231—233.

Chitwood, B. G., and **Oteifa, B. A.,** Nematodes parasitic on plants. Ann. Rev. Microbiol. 6. 1952, 151—184.

Chitwood, B. G., Specht, A. W., and **Havis, L.,** Root-knot nematodes. III. Effects of Meloidogyne incognita and M. javanica on some peach rootstocks. Plant and Soil, The Hague, 4. 1952, 77—95.

Christie, J. R., Ectoparasitic nematodes of plants. Phytopathology 42. 1952, 483—484 (Abstr.).

Christie, J. R., The feeding habits of plant parasitic nematodes. Proc. Florida State hortic. Soc. 64 (1951). 1952, 120—122.

Christie, J. R., Brooks, A. N., and **Perry, V. G.,** The sting nematode, Belonolaimus gracilis, a parasite of major importance on strawberries, celery, and sweet corn in Florida. Phytopathology 42. 1952, 173—176, 3 fig.

Christie, J. R., and **Taylor, A. L.,** Controlling nematodes in the home garden. US Dept. Agric. Farmer's Bull. 2048, 1952, 10 p.

Cockbill, G. F., The root knot eelworm. Rhodesia agric. J. 49, 1952. 303—312.

Courtney, W. D., The teasel nematode, Ditylenchus dipsaci (Kühn, 1857) Filipjev, 1936. J. Washington Acad. Sci. 42. 1952, 303—309.

Courtney, W. D., and **Howell, H. B.,** Investigations on the bent grass nematode, Anguina agrostis (Steinbruch 1799) Filipjev 1936. Plant Dis. Reptr. 36. 1952, 75—83, 3 fig.

Daulton, R. A. C., and **Stokes, W. M.,** The destruction or inhibition of root-knot nematodes by exposure to an electrostatic field. Empire J. exp. Agric. 20. 1952, 271—273.

Drechsler, Ch., Another nematode-strangulating Dactylella and some related Hyphomycetes. Mycologia, Lancaster, 44. 1952, 533—556, 6 fig.

Franklin, M. T., and **Goodey, J. B.,** A cotton blue-lactophenol technique for mounting plant-parasitic nematodes. J. Helminth., London, 23. 1949, 175—178.

Garriss, H. R., Soil fumigation gave 212 per acre profit. [fumigation to control nematodes] Progr. Farmer (Carolina-Virginia Ed.) 67. 1952, nr. 9, p. 18.

Gill, D. L., Effect of tung-nut meal and parathion on root-knot nematode infection. [Meloidogyne spp.] Plant Dis. Reptr. 36. 1952, 18—21, 2 fig.

Goffart, H., Auf- und abbauende Faktoren im Massenwechsel zystenbildender Nematoden. Mitt. Biol. Zentralanst. 1952, H. 74, S. 36—40.

Goffart, H., Fadenwürmer als Pflanzenfeinde. Umschau 52. 1952, 659—661, 5 Abb.

Goffart, H., Zur Frage der Bekämpfung von Nematoden mit Methylbromid. Anz. Schädl.kunde 25. 1952, 104—106.

Goodey, J. B., The influence of the host on the dimensions of the plant parasitic nematode, Ditylenchus destructor. Ann. appl. Biol. 39. 1952, 468—474, 2 fig.

Goodey, J. B., Investigations into the host ranges of Ditylenchus destructor and D. dipsaci. Ann. appl. Biol. 39. 1952, 221—228, 1 tab.

Goodey, T., Annual report of the Nematology Department. Rothamsted Exp. Stat. Rept. 1951. 1952, 93—100.

Graham, T. W., Nematodes as ectoparasites on tabacco, cotton, and other plants. Phytopathology 42. 1952, 9 (Abstr.).

Hastings, R. J., and **Bosher, J. E.,** The discovery of nematodes belonging to the genus Heterodera in British Columbia and their host relationships. Sci. Agric., Ottawa, 32. 1952, 507—510.

Heeley, W., The eelworm problem: biological aspects; the chemical control of eelworms. [Heterodera sp.] Chem. and Ind. (Rev.), London, 41. 1952, 995—998.

Higley, J. C., Shell D-D for eelworm control. World Crops, London, 4. 1952, 103—104.

Hijner, J. A., De gevoeligheid van wilde bieten voor het bietencystenaaltje (Heterodera schachtii). (The susceptibility of wild beets for Heterodera schachtii.) Meded. Inst. rat. Suikerprod. Bergen op Zoom, 21 (1951). 1952, 1—13, 16 fig.

Hoy, J. M., Associations between insects and nematodes. New Zealand sci. Rev. 10. 1952, 100—102.

İrtel, H., Erkılıç, S., Diker, T., Samsun'da kök boğum nematodu (Heterodera marioni Cornu) durumu. (A report on the situation of root-knot-eelworm (Heterodera marioni Cornu) in the province of Samsun.) Bitki Koruma Bült. (Bull. Plant Prot.), Ankara, 1952, nr. 2, p. 45—49.

Kondo, T., (Root-knot Nematodes and its control.) Jap. J. Plant Protect. 39/40. 1952, 352—355.

McBeth, C. W., Methods of assaying nematicides. Phytopathology 42. 1952, 484 (Abstr.).

Mai, W. F., and **Lownsbery, B. F.,** Crop rotation in relation to the golden nematode population of the soil. [Heterodera rostochiensis] Phytopathology 42. 1952, 345—347.

Mai, W. F., and **Mechow, J. v.,** Relative humidity in relation to the retention of viability of larvae enclosed in cysts and free larvae of the golden nematode, Heterodera rostochiensis, Wollenweber. Phytopathology 42. 1952, 469—470.

Marchionatto, J. B., Comentarios sobre últimos trabajos relacionados con el nematode »Tylenchulus semipenetrans«. Rev. argent. Agron. 19. 1952, 184—185.

Marini, E., Osservazioni sperimentali sulle modalita' di lotta contro i nematodi del terreno. (Experiments on the control of nematodes in soil.) Not. Mal. Piante 1952, nr. 21, p. 11—14, 4 fig.

Neethling, J. L., Scientists discover more about eelworms. Rhodesian Farmer 5. 1952, nr. 50, p. 7.

Nolte, H.-W., Nematodenschäden und ihre Ursachen. Dtsch. Landw. 3. 1952, 531—534, 5 Abb.

Nolte, H.-W., Untersuchungen über die stofflichen Grundlagen bei Nematodenschäden. Mitt. Biol. Zentralanst. 1952, H. 74, S. 40—42.

Nolte, H.-W., und **Köhler, H.,** Pflanzenschädigungen bei Nematodenbefall und ihre kausalen Ursachen. Nachr.bl. dtsch. Pfl.schutzd., Berlin, N.F. 6. 1952, 24—28, 5 Abb.

Norton, D. C., Root-knot. Texas agric. Coll. Ext. Circ. 300. 1952, 8 p.

Oostenbrink, M., Die Grundlagen der Nematodenbekämpfung. Mitt. Biol. Zentralanst. 1952, H. 74, S. 33—36.

Oostenbrink, M., De monocyste-cultuur bij het waardplantenonderzoek van Heterodera's. (Monocyst-culture in host plant research of Heterodera.) Tijdschr. Plantenziekten 58. 1952, 84—87, 3 fig.

Oteifa, B. A., Potassium nutrition of the host in relation to infection by a root-knot nematode, Meloidogyne incognita. Proc. helminth. Soc. Washington 19. 1952, 99—104.

Perry, V. G., The northern root-knot nematode, Meloidogyne hapla, found in Florida and Alabama. Plant Dis. Reptr. 36. 1952, 335.

Peters, B. G., Control of plant nematodes. Repts. Progr. appl. Chem. (Soc. chem. Ind.), London, 36 (1951) 1952, 701—704.

Peters, B. G., The eelworm problem: biological aspects. Plant eelworms of the genus Heterodera. Chem. and Ind. (Rev.), London, 1952, 994—995.

Petrik, C., (About the new agents for destruction of nematodes in soil.) Vojvodanski Poljoprivrednik (Yugoslavia) 8. 1952, nr. 12, p. 18—19.

Raski, D. J., On the host range of the sugar-beet nematode in California. Plant Dis. Reptr. 36. 1952, 5—7.

Raski, D. J., and **Sher, S. A.,** Sphaeronema californicum, nov. gen. nov. spec., (Criconematidae: Sphaeronematinae, nov. subfam.) an endoparasite of the roots of certain plants. Proc. helminth. Soc. Washington 19. 1952, 77—80.

Ritter, M., La lutte contre les nématodes phytoparasites Phytoma, Paris, 5. 1952, nr. 34, p. 9—17, 9 fig.

Sachs, H., Neues zur Älchenbekämpfung mit E 605 forte. [Aphelenchoides] Höfchen-Briefe, Leverkusen, 5. 1952, 20—32, 4 Abb.

Sasser, J. N., Identification of root-knot nematodes (Meloidogyne spp.) by host reactions. Plant Dis. Reptr. 36. 1952, 84—86, 4 fig.

Sasser, J. N., Identification of root-knot nematodes (Meloidogyne spp.) by host tests. Phytopathology 42. 1952, 17—18 (Abstr.).

Sasser, J. N., Studies on the control of root-knot nematodes (Meloidogyne spp.) with Systox spray (E-1059), an organic phosphate insecticide. Plant. Dis. Reptr. 36. 1952, 228—233, 5 fig. — Phytopathology 42. 1952, 343.

Sasser, J. N., Systox for control of nematodes. Farm Chem. 115. 1952, nr. 11, p. 12—13, 69.

Sasser, J. N., and **Taylor, A. L.,** Studies on the entry of larvae of root-knot nematodes into roots of susceptible and resistant plants. Phytopathology 42. 1952, 474.

Schenk, P. J., (The root nematode Heterodera marioni.) Groenten en Fruit 7, 1952, 898.

Seinhorst, J. W., Aaltjesziekten in tuinbouwgewassen. (Eelworms menacing horticultural crops.) Meded. Dir. Tuinbouw 15. 1952, 773—776, 3 fig. (Inst. plt.ziektenkdg. Onderz., Wageningen, Meded. no. 53).

Seinhorst, J. W., Aaltjesziekten van tuinbouwgewassen en landbouwgewassen. Inst. plt.ziektenkdg. Onderz., Wageningen, 1951. 1952, 88—92.

Smith, H. W., Some laboratory methods for screening nematocides. Ohio State Univ. Abstr. Doct. Diss. 63. 1952, 331—337.

Spencer, E. L., and **Jack, A.,** Nitrogen transformation in seedbeds as affected by nematocidal treatment. Proc. Florida State hortic. Soc. 63. 1952, 125—128.

Steiner, G., Phenomena and problems of the internal parasitism of nematodes in plants. Phytopathology 42. 1952, 484 (Abstr.).

Stöckli, A., Studien über Bodennematoden mit besonderer Berücksichtigung des Nematodengehaltes von Wald-, Grünland- und ackerbaulich genutzten Böden. Ztschr. Pfl.ernährg., Düngg., Bodenkunde 59. (104). 1952, 97—139, 12 Abb.

Tarjan, A. C., Life histories of the root-knot nematodes. Phytopathology 42. 1952, 20 (Abstr.).

Tarjan, A. C., Nematode diseases of plants. Research (Rhode Island Stat.) 2. 1952, 40—41, 47.

Taylor, A. L., Progress and prospects in the chemical control of nematodes. Agric. Chem. 7. 1952, nr. 11, p. 39—41, 123.

Taylor, A. L., Feldmesser, J., and **Fassuliotis, G.,** An improvement in the method of searching for Heterodera cysts. Plant Dis. Reptr. 36. 1952, 269.

Van den Brande, J., La recherche sur les nematodes. Réveil Agric. (France) 5. 1952, 997—1001.

Wachek, F., System und Biologie der entoparasitischen Tylenchiden. Diss. Erlangen 1952.

Wahlin, B., Nematodangreppen ökar. Växtskyddsnotiser, Stockholm, 16. 1952, 63—64.

Walmsley, L., and **Walmsley, F.,** On the trail of the ubiquitous nematode. Calif. Gard. 43. 1952, nr. 4, p. 13—14.

Wehr, E. E., and **Lucker, J. T.,** Insects and helminths. US Dept. Agric. Yearb. Agric. 1952, 169—179.

b. Mollusca

Bergmark, M., (Snails-glutton, pest.) Trädgårdstidningen, Jönköping, 24. 1952, nr. 5, p. 9, 28—29.

Blume, W., Beitrag zur Kenntnis der Landschnecken-Fauna SW-Afrikas. Arch. Molluskenkunde 81. 1952, 113—117.

Blume, W., Eine neue Landschnecke aus dem Tanganyikagebiet. Arch. Molluskenkunde 81. 1952, 103—104.

Blume, W., Ein neuer Fundort für zwei ägyptische Landschnecken. Arch. Molluskenkunde 81. 1952, 109—111.

Blume, W., Zwei bolivianische Schnecken. Arch. Molluskenkunde 81. 1952, 105—107.

Boback, A. W., Zur Frage eines forstlichen Schadens durch die Waldnacktschnecke Arion subfuscus Drap. Anz. Schädl.kunde 25. 1952, 189.

Cleland, J. W., Slug control. New Zealand Entomologist 1. 1952, nr. 2, p. 6.

Cragg, J. B., and **Vincent, M. H.,** The action of metaldehyde on the slug Agriolimax reticulatus (Müller). Ann. appl. Biol. 39. 1952, 392—406, 1 fig.

De Bont, A. F., and **De Bont Hers, M. J.,** Mollusc control and fish-farming in Central Africa. Nature, London, 170. 1952, 323—324.

Edelstam, C., and **Palmer, C.,** Homing behaviour in Gastropodes. Oikos, København, 2. 1952, 259—270.

Frömming, E., Über das Verhalten einheimischer Landlungenschnecken zu den Wildfrüchten. Pharmazie 7. 1952, 448—449.

Frömming, E., Über die Nahrung von Limax (Heynemannia) maximus L. Anz. Schädl.kunde 25. 1952, 41—43.

Frömming, E., und **Plate, H.-P.,** Sind die Metaldehyd-Köder zuverlässige Schneckenbekämpfungsmittel? Schädlingsbekämpfung 44. 1952, 130—131.

Glendenning, R., Slug control in Canada. Canada Dept. Agric., Sci. Serv. (Div. Ent.), Processed Publ. ser. nr. 85. 1952, 5 p.

Govi, G., (Control of snails.) Inform. Fitopat., Bologna, 2. 1952, 73—76.

Hagen, B., Die bestimmenden Umweltsbedingungen für die Weichtierwelt eines süddeutschen Flußufer-Kiefernwaldes (Mollusca terrestria in Pineto-ericae). Veröff. Zool. Staatssamml., München, 2. 1952, 161—276.

Heidermanns, C., und **Kirchner-Kühn, I.,** Über die Urease von Helix pomatia. Ztschr. vergl. Physiol. 34. 1952, 166—178, 3 Abb.

Jefferson, R. N., The control of slugs, varying degrees of success achieved with metaldehyde sprays and dusts. Florists' Rev., Chicago, 111. 1952, nr. 2869, p. 29—30, 123—127.

Lal, M. B., and **Saxena, B. B.,** Uricotelism in the common indian apple-snail, Pila globosa (Swainson). Nature, London, 170. 1952, 1024.

Lange jr., W. H., and **Sciaroni, R. H.,** Metaldehyde dusts for control of slugs affecting Brussels sprouts in Central California. J. econ. Ent. 45. 1952, 896—897.

Pfeiffer, K. L., Neue Landschnecken aus Ostafrika. Arch. Molluskenkunde 81. 1952, 89—102.

Plate, H.-P., und Frömming, E., Quantitative Untersuchungen über die Wirksamkeit einiger Metaldehydpräparate gegenüber Landlungenschnecken. Anz. Schädl.kunde 25. 1952, 133—136.

Rosén, B., The problem of phagocytosis in Helix pomatia L. Ark. Zool., Uppsala, 3. 1952, 33—51, 8 fig., 1 tab. col.

Zilch, A., Landschnecken aus dem nördlichen SW-Afrika. Arch. Molluskenkunde 81. 1952, 119—126.

c. Arthropoda: Acari

Batchelor, C. S., The eriophyid mites of the State of Washington. Washington State agric. Exp. Stat. Techn. Bull. 6. 1952, 1—32.

Blair, C. A., and Groves, J. R., Biology of the fruit tree red spider mite, Metatetranychus ulmi (Koch) in south-east England. J. hortic. Sci., London, 27. 1952, 14—43.

Blauvelt, W. E., New developments in spider mite (Paratetranychus pilosus) control. Rose Ann. (Nat. Rose Soc.), Croydon, 37. 1952, 129—138.

Bush, R., Proper under leaf spraying will kill red spider (Tetranychus). Grower 38. 1952, 598—599.

Collyer, E., Biology of some predatory insects and mites associated with the fruit tree red spider mite (Metatetranychus ulmi (Koch) (i. e. Paratetranychus pilosus) in south-eastern England. I. The biology of Blepharidopterus angulatus (Fall.) (Hemiptera-Heteroptera, Miridae). J. hortic. Sci., London, 27. 1952, 117—129.

Daniels, N. E., Control of spider mites on wheat. [Petrobia latens] Texas agric. Exp. Stat. Progr. Rept. 1476. 1952, 3 p.

Davis, D. W., Biological studies on three forms of the two-spotted spider mite [Tetranychus bimaculatus] (Acarina: Tetranychidae). Pan-Pacific Ent. 28. 1952, 1—6.

Davis, D. W., Influence of population density on Tetranychus multisetis. J. econ. Ent. 45. 1952, 652—654.

Davis, D. W., Some effects of DDT on spider mites. J. econ. Ent. 45. 1952, 1011—1019, 4 fig.

Denffer, D. v., Wuchsstoffinduzierte Hemmung der Blütenbildung durch Gallmilben und Gallinsekten. Umschau 52. 1952, 400—402, 9 Abb.

Dierick, G. F. E. M., Some data on the composition of the waxy layers on eggs of the European red spider in different stages of development. Trans. IXth int. Congr. Ent., Amsterdam, 1 (1951). 1952, 295—302, 2 tab.

Döhring, E., Die Rote Stachelbeermilbe Bryobia praetiosa Koch als lästiger Wohnungseindringling. Schädlingsbekämpfung 44. 1952, 171—175. 4 Abb.

Eads, R. B., Menzies, G. C., and Miles, V. I., Acarina taken during West Texas plague studies. Proc. ent. Soc. Washington 54. 1952, 250—253.

Eichler, W., Behandlungstechnik parasitärer Insekten. Eine Anleitung zur mikroskopischen Untersuchung und wissenschaftlichen Bearbeitung hygienisch und phytopathologisch wichtiger Insekten und Milben unter besonderer Berücksichtigung von Fang und Zucht, Mittelprüfung und Präparationstechnik. Akad. Verlagsges. Geest & Portig, K.-G., Leipzig 1952. XIV + 286 S., 82 Abb.

Evans, G. O., A new typhlodromid mite (Typhlodromus longispinosus) predaceous on Tetranychus bimaculatus Harvey in Indonesia. Ann., Mag. natural Hist., London, 5 (ser. 12). 1952, 413—416.

Fjelddalen, J., and Daviknes, T., (Greenhouse mites (Tetranychus altheae) resistant to parathion found in Norway.) Gartneryrket 42. 1952, 337—338, 340.

Geier, P., et Baggiolini, M., Malacocoris chlorizans Pz. (Hem. Het. Mirid.), prédateur des acariens phytophages. Mitt. schweiz. ent. Ges. 25. 1952, 257—259, 3 fig.

Gregson, J. D., and Kohls, G. M., The male of Ixodes sorcis Gregson (Acarina: Ixodidae). Canad. Entomologist 84. 1952, 185—188.

Hey, G. L., PCPBS and red spider. [Tetranychus] Grower 38. 1952, 28—29.

Hey, G. L., Spray for red spider on Monday. [Tetranychus] Grower 37. 1952, 1181—1182.

Hughes, A. M., A new glycyphagid mite — Carpoglyphus munroi. J. Linnean Soc. Zool., London, 42. 1952, 168—175.

Jenkins, C. F. H., The red-legged earth mite. [Halotydaeus destructor] Fruit Grower, London, 2966. 1952, 793—794.

Keh, B., Mating experiments with the two-spotted spider mite complex. J. econ. Ent. 45. 1952, 308—312.

Keifer, H. H., Eriophid studies. XX. [new species in Aceria] Bull. Calif. Dept. Agric. 41. 1952, 147—149.

Koone, H. D., and Lancaster jr., J. L., Greenhouse and preliminary field trials for the control of the red spider. [Tetranychus bimaculatus] J. Kansas ent. Soc. 25. 1952, 5—9.

Lamb, K. P., A preliminary list of New Zealand Acarina. Trans. R. Soc. New Zealand 79. 1952, 370—375.

Lienk, S. E., Dean, R. W., and Chapman, P. J., Resistance of European red mite to parathion. J. econ. Ent. 45. 1952, 1082.

Linke, L., Untersuchungen über Biologie und Epidemiologie der Gemeinen Spinnmilbe Tetranychus althaeae v. Hanst. Höfchen-Briefe, Leverkusen, 5. 1952, 19—20.

McGregor, E. A., A new spider mite (Acarina, Tetranychidae). [Tetranychus frosti] Proc. ent. Soc. Washington 54. 1952, 142—144.

Matthysse, J. G., and **Naegele, J. A.,** Spruce mite and southern red mite control experiments. J. econ. Ent. 45. 1952, 383—387.

Meyer, J., Rapports entre l'évolution cytologique du tissu nourricier d'Eriophyes macrorhynchus Nal. et la biologie de l'acarien. Compt. rend. Acad. Sci., Paris, 235. 1952, 1545—1547.

Miller, L. W., The hatching of the overwintering eggs of the European red mite. [Paratetranychus pilosus] Tasmanian J. Agric. 23. 1952, 102—116.

Mistric jr., W. J., and **Rainwater, C. F.,** Comparative susceptibility of Septanychus texazona and Tetranychus bimaculatus to certain sulfur and phosphorus products. J. econ. Ent. 45. 1952, 76—79.

Rodriguez, J. G., Mineral nutrition of the two-spotted spider mite, Tetranychus bimaculatus Harvey. Ann. ent. Soc. Amer. 44 (1951). 1952, 511—526.

Serdjukowa, G. W., (New data on the development of larvae and nymphs of Ixodes ricinus L. under natural conditions.) Dokl. Akad. Nauk SSSR 83. 1952, 769—772.

Speyer, E. R., and **Parr, W. J.,** Red spider mite (Tetranychus telarius L.). Cheshunt (Herts.) Exp. Res. Stat. Ann. Rept. 1951. 1952, 41—49.

Tunblad, B., (Control of red mite.) [Paratetranychus pilosus] Sveriges pomol. Fören. Fruktodlaren 2. 1952, 39—42.

Willmann, C., Die Milbenfauna der Nordseeinsel Wangerooge. Veröff. Inst. Meeresforsch. Bremerhaven 1. 1952, 139—186, 3 Taf.

d. Arthropoda: Hexapoda

Allgemeiner Teil
General part — Partie générale

Alden, C. H., Reviewing 35 years of progress in entomology. Agric. Chem., Baltimore, 7. 1952, 51, 129, 131.

Andrewartha, H. G., Diapause in relation to the ecology of insects. Biol. Rev., Cambridge, 27. 1952, 50—107.

Arnoldi, K. W., (Zur Erklärung zonaler Gesetzmäßigkeiten bei der Bildung neuer Gruppierungen von Insekten und der Besiedelung der Waldanpflanzungen mit xerophilen Arten beim Steppenwaldbau.) Zool. Žh. (Zool. J.) 31. 1952, 329—346.

Autrum, H., and **Stocker, M.,** Über optische Verschmelzungsfrequenzen und stroboskopisches Sehen bei Insekten. Biol. Zentralbl. 71. 1952, 129—152.

Autrum, H.-J., Über zeitliches Auflösungsvermögen und Primärvorgänge im Insektenauge. Naturwissenschaften 39. 1952, 290—297, 11 Abb.

Avery, C. J., The case for self-regulation. Pest Control 20. 1952, nr. 3, p. 28, 30.

Babers, F. H., and **Pratt jr., J. J.,** Life processes of insects. US Dept. Agric. Yearb. Agric. 1952, 30—37.

Baeta Neves, C. M., Notas sobre a entomofauna florestal portuguesa. Bol. Soc. portug. Ciênc. naturales, Lisboa, 2. 1952, 4—8.

Barendrecht, G., (New insight into the structure and origin of insect cuticle.) Tijdschr. Ent., Amsterdam, 95. 1952, 11—18.

Bauers, Ch., Der Fixierbereich des Insektenauges. Ztschr. vergl. Physiol. 34. 1952, 589—605, 16 Abb.

Beament, J. W. L., The role of cuticle and egg-shell membranes in the penetration of insecticides. Ann. appl. Biol. 39. 1952, 142—143.

Bodenheimer, F. S., Arrested development and arrested activity in insect life. Trans. IXth int. Congr. Ent., Amsterdam, 1 (1951). 1952, 21—40.

Breland, O. P., Parasite puzzles. [includes insects as parasites and as hosts] Frontiers (Mag. natural Hist.), Philadelphia, 17. 1952, 18—19.

Brock, A. A., Can we continue to produce enough for all? Blue Anchor 29. 1952, 34, 39, 41.

Brues, Ch. T., How insects choose their food plants. US Dept. Agric. Yearb. Agric. 1952, 37—42.

Buddenbrock, W. v., und **Moller-Racke, I.,** Neue Beobachtungen über den Farbensinn der Insekten. Experientia, Basel, 8. 1952, 62—63.

Burks, B. D., Insects and their enemies. Oregon Farmer, Portland, 4. 1952, nr. 3, p. 24—25, 47—50.

Burks, B. D., Insects, enemies of insects. US Dept. Agric. Yearb. Agric. 1952, 373—380, 5 fig.

Carter, W., Injuries to plants caused by insect toxins. II. Bot. Rev., Lancaster, 18. 1952, 680—721.

Chisholm, A. H., Strange relations of birds and insects. Nature Mag., Baltimore, 45. 1952, 526—528, 550.

Clausen, C. P., Controlling insects biologically. Citrus Leaves 32. 1952, nr. 3, p. 6—7, 32—33.

Clausen, C. P., Parasites and predators. US Dept. Agric. Yearb. Agric. 1952, 380—388, 1 fig.

Cumber, R. A., Flight records of Coleoptera and Hemiptera taken with a modified Rothamsted light trap operated at Paiaka. New Zealand J. Sci., Technol. (Sect. B) 34. 1952, 242—244.

Davis, J. J., Milestones in entomology. US Dept. Agric. Yearb. Agric. 1952, 441—444.

Denffer, D. v., Wuchstoffinduzierte Hemmung der Blütenbildung durch Gallmilben und Gallinsekten. Umschau 52. 1952, 400—402, 9 Abb.

Di Martino, E., Prove comparative die attrattività tra il melasso di bietola e quello di carruba. (Comparative tests of the attractiveness of beet and carob molasses.) Ann. Sperim. agr., Roma, 6 (n. ser.). 1952, 933—940.

Downes, W., Fifty years of entomology on Vancouver Island. [chiefly economic entomology] Proc. ent. Soc. brit. Columbia 48. 1952, 9—16.

Dufrénoy, J., and **Plumb, J. L.,** A graphical calculator for statistical analysis of experiments in entomology. Trans. IXth int. Congr. Ent., Amsterdam. 1 (1951). 1952, 1068—1070, 2 fig.

Essig, E. O., How insects live. US Dept. Agric. Yearb. Agric. 1952, 20—29.

Evans, J. W., The injurious insects of the British Commonwealth (except the British Isles, India and Pakistan), with a section on the control of weeds by insects. Commonw. Inst. Ent., London 1952. VII + 242 p

Fellows, H., and **Connin, R. V.,** A glass and plastic insect-proof cage. Plant Dis. Reptr. 36. 1952, 471—473, 3 fig.

Fenton, F. A., Field crop insects. Macmillan Comp., New York 1952. 405 p., 224 fig.

Fracker, S. B., Papers on entomological and phytopathological subjects, 1913—1951. Washington 1952. 14 p.

Francke-Grosmann, H., Probleme der angewandten Entomologie. Ztschr. Weltforstw. 15. 1952, H. 1.

Frings, H., Factors determining the effects of radiofrequency electromagnetic fields on insects and materials they infest. J. econ. Ent. 45. 1952, 396—408, 9 fig.

Frost, S. W., Light traps for insect collection, survey and control. Pennsylv. agric. Exp. Stat. Bull. 550. 1952, 32 p.

Giunchi, P., Contributi alla conoscenza dell'entomofauna dell'Erba Medica. Boll. Ist. Ent. Univ. Bologna 19. 1952, 1—30, 13 fig.

Grandi, G., "Introduzione allo studio dell'Entomologia". Boll. Ist. Ent. Univ. Bologna 19. 1952, 263—306.

Guillaume, A., Substances attractives pour les insectes; produits insectilices. Chem. and Ind. (Rev.), London, 68. 1952, 717—722.

Gurney, A. B., Approved additions to common name list, and one proposed change. J. econ. Ent. 45. 1952, 1114.

Hall, D. G., How to get further information on insects. US Dept. Agric. Yearb. Agric. 1952, 737—743, 1 fig.

Hall, D. G., Public relations in entomology. US Bur. Ent., Plant Quar., Washington 1952, 6. p.

Hambleton, E. J., Entomology in the point four program. J. econ. Ent. 45. 1952, 1103—1108.

Healy, M. J. R., A table of Abbott's correction for natural mortality. Ann. appl. Biol. 39. 1952, 211—212.

Hering, E. M., Probleme der Xenophobie und Xenophilie bei der Wirtswahl phytophager Insekten. Trans. IXth int. Congr. Ent., Amsterdam, 1 (1951). 1952, 507—513, 1 fig.

Herrbach, E. J., Cankerworms, red spiders, and scale insects. [Alsophila pometaria, Paleacrita vernata, Tetranychus bimaculatus, various scale insects] Arborist's News 17. 1952, 78—81.

Heslop-Harrison, G., Original studies on the evolution of the Insecta. I. Ann., Mag. natural Hist., London, 5 (ser. 12). 1952, 521—538.

Hörhammer, C., Ein neuer Melanismus. Ent. Ztschr., Frankfurt a/M., 62. 1952, 37—38.

Hoy, J. M., Associations between insects and nematodes. New Zealand Sci. Rev. 10. 1952, 100—102.

Hughes, G. M., Differential effects of direct current on insect ganglia. J. exp. Biol. 29. 1952, 387—402.

Hyde, G. E., British insects. Black, London 1952. 96 p. (Black's Young Naturalist's Ser. 9.)

Jackson, R. A., Moth-traps and other matters. Entomologist, London, 85. 1952, 14—16.

Jones, H. A., Kerbey, G. F., and **Incho, E. J.,** Insect-proofing of paper. Proc. Mid-Year Meetg. Chem. Spec. Mfr. Assoc. Off. 38. 1952, 94—96.

Jones, M. P., Extension work in entomology. US Dept. Agric. Yearb. Agric. 1952, 457—462, 1 fig.

Knowlton, G. F., Range entomology. Utah agric. Exp. Stat. Mimeogr. Sheet 391. 1952, 3 p.

Knowlton, G. F., and **Taylor, G. P.,** Utah insects-occurrence and notes. Proc. Utah Acad. Sci., Arts, Lett. 29. 1951/52, 49—50.

Kovačević, Ž., (Warum kommt periodisch ein Massenauftreten der Schädlinge vor?) Šumarski List, Zagreb, 76. 1952, 285—288.

Kryshanowskij, O. L., Ob entomofaune jugo-sapadnoj tschasti trassy Glawnogo Turkmenskogo kanala i jeje wosmoshnom chosjaistwennom snatschenii. (Über die Entomofauna des südwestlichen Teils der Trasse des Turkmenischen Hauptkanals und ihre mögliche wirtschaftliche Bedeutung.) Zool. Žh. (Zool. J.) 31. 1952, 191—201.

Kurir, A., Vergrößerung der Zahl der Raupenstadien und Verlängerung des Raupenlebens durch die Nahrung. Bodenkultur, Wien, 6. 1952, 355—382, 17 Abb.

Lesser, M. A., Insect repellents. Soap, sanit. Chem. 28. 1952, nr. 3, p. 136—137, 141—142, 173.

Lindquist, A. W., Radioactive materials in entomological research. J. econ. Ent. 45. 1952, 264—270.

Lyle, C., Can insects be eradicated? US Dept. Agric. Yearb. Agric. 1952, 197—199, 2 fig.

Marzusch, K., Untersuchungen über die Temperaturabhängigkeit von Lebensprozessen bei Insekten unter besonderer Berücksichtigung winterschlafender Kartoffelkäfer. Ztschr. vergl. Physiol. 34. 1952, 75—92, 4 Abb.

Medwedew, S. J., Bozhko, M. P., and **Schapiro, D. S.,** (Effect of irrigation on insect fauna in the district of the Kakhovskaîa Hydroelectric Station and Southern-Ukrainian Canal.) Zool. Žh. (Zool. J.) 31. 1952, 347—360.

Melničenko, A., (Die zonal-klimatische Veränderung der Ortsbesiedelung der Insekten als Evolutionsfaktor.) Zool. Žh. (Zool. J.) 31. 1952, 56—60.

Moller-Racke, I., Farbensinn und Farbenblindheit bei Insekten. Zool. Jahrb., Abt. allg. Zool., Physiol., 63. 1952, 237—274, 57 Abb.

Muesebeck, C. F. W., Progress in insect classification. US Dept. Agric. Yearb. Agric. 1952, 56—60.

Muesebeck, C. F. W., What kind of insect is it? US Dept. Agric. Yearb. Agric. 1952, 43—55, 55 fig., 8 tab.

Nettles, W. C., Garden and truck crop insects. South Carolina agric. Coll. Ext. Bull. 102. 1952, 40 p.

Portier, P., et **Busnel, R.-G.,** Réaction des insectes décapités aux substances odorantes. Compt. rend. Acad. Sci., Paris, 234. 1952, 379—380.

Pyenson, L., Insects — that plague the gardener. Gard. J. 2. 1952, 54—55, 58.

Rhodes, N., Friend or foe. [insects] For Sale, Want, Exch. (Florida State Marktg. Bur.) Bull. 6. 1952, nr. 12, p. 1.

Rivnay, E., The threshold of reproduction in insects and its application to agriculture. Trans. IXth int. Congr. Ent., Amsterdam, 1 (1951). 1952, 607—610.

Robinson, H. S., Some suggestions on the examination of an ethical and a practical problem. I. Some considerations on the ethics of killing insects. II. The influence of mercury-vapour traps on insect populations. Ent. Gaz. 3. 1952, 45—51.

Roth, A. R., and **Hoffman, R. A.,** A new method of tagging insects with P^{32}. J. econ. Ent. 45. 1952, 1091.

Sabrosky, C. W., How many insects are there? US Dept. Agric. Yearb. Agric. 1952, 1—7, 1 fig.

Schiller, H., Entomologie und Öffentlichkeit. Ent. Ztschr., Frankfurt a/M., 62. 1952, 94—96, 1 Abb.

Schmidt, G., Allerlei Wissenswertes über die Insekten. Schädlingsbekämpfung 44. 1952, 14—15, 37—41, 192—194.

Smith, K. M., and **Xeros, N.,** Transmission of polyhedral viruses between different insect species. Nature, London, 170. 1952, 492, 1 fig.

Smith, P. S., Wind currants and flying insects. Ent. Rec., J. Variation 64. 1952, 49—50.

Smith, R. C., The special responsibilities of entomologists in the North Central States Branch area. Proc. amer. Assoc. econ. Entomologists, North Centr. States Br., 7. 1952, 1—3.

Spencer, G. J., The 1951 status of our knowledge of the insects of British Columbia. Proc. ent. Soc. brit. Columbia 48. 1952, 36—41.

Steinhaus, E. A., Infectious diseases of insects. US Dept. Agric. Yearb. Agric. 1952, 388—394.

Strickland, A. H., The assessment of insect populations in relation to crop losses. Trans. IXth int. Congr. Ent., Amsterdam, 1 (1951). 1952, 611—618.

Taylor, L. F., Apple, J. W., and **Berger, K. C.,** Response of certain insects to plants grown on varying fertility levels. J. econ. Ent. 45. 1952, 843—848.

Thalenhorst, W., Die Bedeutung des Einzelgeschehens in der Gradologie. Trans. IXth int. Congr. Ent., Amsterdam, 1 (1951). 1952, 531—534.

Thalenhorst, W., Insektenkatastrophen als pathologische Erscheinungen. Universitas 7. 1952, 503—508.

Uschatinskaja, R. S., (Verlauf einiger physiologischer Prozesse im Insektenkörper vor der Überwinterung.) Isv. Nauk SSSR (ser. Biol.) 1952, nr. 1, p. 101—114.

Vappula, N. A., Finnish entomological literature published in 1950 including economic entomology and control of insect pests. Suomen Hyönteistiet. Aikakausk. (Ann. ent. fenn.), Helsinki, 18. 1952, nr. 1a, 17 p.

Vaurie, P., Insect collecting in the Bimini Island group, Bahama Islands. Amer. Mus. Novit., New York, 1565. 1952, 24 p.

Venables, E. P., Fifty years of entomology in the interior of British Columbia. Proc. ent. Soc. brit. Columbia 48. 1952, 19—22.

Wadley, F. M., Elementary sampling principles in entomology. US Bur. Ent., Plant Quar., Washington, ET-302. 1952, 18 p.

Wehr, E. E., and **Lucker, J. T.,** Insects and helminths. US Dept. Agric. Yearb. Agric. 1952, 169—179.

Wolcott, G. N., The present status of economic entomology in Puerto Rico (summary). Trans. IXth int. Congr. Ent., Amsterdam, 1 (1951). 1952, 776—777.

Yeomans, A. H., Radiant energy and insects. US Dept. Agric. Yearb. Agric. 1952, 411—421.

Yuasa, H., Growth habit of crop plant, as an environmental factor of insect pests. Trans. IXth int. Congr. Ent., Amsterdam, 1 (1951). 1952, 810—812, 5 fig.

Behaviour of social insects. Nature, London, 170. 1952, 642—644.

Common names of British insect and other pests. II. Assoc. appl. Biol., Bedford 1952. 40 p.

Liste officielle des noms français des insectes d'importance économique au Canada. (Préparée par le Comité permanent des noms français de la Société de Québec pour la Protection des Plantes. Publiée en supplément du rapport annuel de cette Société pour l'année 1951.) Minist. Agric., Quebec 1952. 2. ed., 73 p.

Some important insects. US Dept. Agric. Yearb. Agric. 1952, 72 p., 72 tab. col.

Apterygota

Plaut, N., (Collembola — new insect pest of field crops.) Hassadeh (hebr.) 32. 1952, 452—454.

Orthoptera

Alam, S. M., Food plant of the desert locust. [Schistocerca gregaria] Curr. Sci., Bangalore, 21. 1952, 344.

Albrecht, F. O., The reliability of the E/F ratio, a measure of phase status, in fresh and in dried locusts (Orthoptera). Proc. R. ent. Soc. London 21 (ser. B). 1952, 167—169.

Arrieta M., L., y **Coronado Padilla, R.,** La campaña contra la langosta en México y Centroamérica. Bol. Asoc. Gen. Agric. 326. 1952, 6—7.

Balâmír, S., (Dociostaurus maroccanus in Turkey.) Bitki Koruma Bült. (Bull. Plant Prot.), Ankara, 1. 1952, 11—15.

Balâmír, S., Türkiye'de fas çekirgesi (Dociostaurus maroccanus) Durumu (1939—1951). (Die Heuschrecke in der Türkei.) Bitki Koruma Bült. (Bull. Plant Prot.), Ankara, 1952, nr. 1, p. 11—15, 1 tab. geogr.

Balâmír, S., Yakın doğuda çöl çekirgesi. (Schistocerca gregaria Forsk.) (The situation of the desert locust in the Near-East.) Bitki Koruma Bült. (Bull. Plant Prot.), Ankara, 1952, nr. 3, p. 14—26, 1 tab. geogr.

Balâmír, S., ve **Bellik, S.,** Türkiye'nin 1951 yılı genel çekirge durumu. (In 1951 the adults Moroccan locust were received from different parts of the country.) Bitki Koruma Bült. (Bull. Plant Prot.), Ankara, 1952, nr. 2, p. 29—32.

Blanco, G., Insect blitz; the locust's victims join forces and counterattack. Americas 4. 1952, nr. 2, p. 16—17, 46.

Bobb, M. L., Grasshopper (Melanoplus femurrubrum) control. Virginia Fruit (Virginia State hortic. Assoc.) 40. 1952, nr. 6, p. 41—42.

Bodine, J. H., and **Lu, K. H.,** The action of thyroxine on the endogenous oxygen uptake of mitotically nates and intracellular constituents. [Melanoplus differentialis] J. cell., compar. Physiol., Philadelphia, 39. 1952, 255—259.

Bodine, J. H., Lu, K. H., and **West, W.,** Enzyme inhibitors. [Melanoplus differentialis] Proc. Iowa Acad. Sci. 59. 1952, 422—427.

Bredo, H. J., Le rôle de l'International Red Locust Control Service. [Nomadacris septemfasciata] Bull. Soc. belge Études, Expansion 151. 1952, 548—552.

Brett, C. H., Chemical control of grasshoppers. [Melanoplus differentialis, M. mexicanus mexicanus, M. bivittatus] Agric. Chem., Baltimore, 7. 1952, nr. 5, p. 50—52, 135, 137.

Brett, C. H., and **Eitel, W. J.,** Comparison of dieldrin and aldrin with other compounds as grasshopper toxins. J. econ. Ent. 45. 1952, 346—347.

Broughton, W. B., Recording of stridulation; possible responsiveness of female Acrididae (Orth.) to stridulation; stridulation of Leptophyes punctatssima (Bosc) (Orth., Tettigonidae). Ent.'s mon. Mag., London, 88. 1952, 47.

Brown, E. B., Observations on the life-history of the cockroach Ectobius panzeri Stephens (Orth., Blattidae). Ent.'s mon Mag., London, 88. 1952, 209—212.

Browning, T. O., On the rate of completion of diapause development at constant temperatures in the eggs of Gryllulus commodus Walker. Austr. J. sci. Res. (ser. B) 5. 1952, 344—353.

Brunet, P. C. J., The formation of the ootheca by Periplaneta americana. II. The structure and function of the left collaterial gland. Quart. J. microscop. Sci., London, 93. 1952, 47—69.

Burgess, L. E., McNeil, E. H., and **Rolfe, D. T.,** Response of certain microorganisms to a pterine compound isolated from developing egg of grasshopper. Proc. Fed. amer. Soc. exp. Biol. 11. 1952, 20.

Carimini, M., (The black cricket.) Inform. Fitopat., Bologna, 2. 1952, 81—83.

Carlson, J. G., Microdissection studies of the dividing neuroblast of the grasshopper, Chorthophaga viridifasciata (De Geer). Chromosoma 5. 1952, 199—220.

Casali, D. C., Comportamiento del D. O. C. en solucion oleosa. In: Comité Interamericano Permanente Antiacridiano, Sesion Extraordinaria, Buenos Aires, 1952, 93—94.

Chaboussou, F., et **Ramadier, P.,** Essais d'appâts empoisonnés contre les courtilières (Gryllotalpa gryllotalpa). Rev. hortic., Paris, 124. 1952, 676—678.

Chapman, K., Ecological studies on solitary Acrididae in England and South Africa. J. ent. Soc. South. Afr. 15. 1952, 165—203, 4 fig.

Chetyrkina, I. A., (Acrididae of the forest outskirts in the Valley of Ural River.) Trudy Akad. Nauk SSSR zool. Inst. 11. 1952, 133—141.

Cheu, S. P., Changes in the fat and protein content of the African migratory locust, Locusta migratoria migratorioides (R. et F.). Bull. ent. Res. 43. 1952, 101—109.

Chiaromonte, A., (The annual meeting of the Desert Locust Survey Advisory Committee of Nairobi.) Riv. Agric. subtrop., trop., Firenze, 46. 1952, 247—250.

Chiesa Molinari, O., Nuevas experiencias subre lucha quimica contra los acridios con compuestos fosforados orgánicos. IDIA (Inform. Invest. agríc.), Buenos Aires, 5. 1952, nr. 52, p. 18—120.

Chopard, L., Un insecte énigmatique: le Grylloblatta. Nature, Paris, 3207. 1952, 219.

Church, N. S., and Salt, R. W., Some effects of temperature on development and diapause in eggs of Melanoplus bivittatus (Say) (Orthoptera: Acrididae). Canad. J. Zool. 30. 1952, 173—184, 6 fig.

Cochran, D. G., Grayson, J. M., and Levitan, M., Chromosomal and cytoplasmic factors in transmission of DDT resistance in the German cockroach. J. econ. Ent. 45. 1952, 997—1001, 3 fig.

Connin, R. V., Control of the American grasshopper with organic insecticides in Florida. J. econ. Ent. 45. 1952, 684—687.

Corkins, J. P., Progress report on range grasshopper investigations. Montana Stockgrower 24. 1952, nr. 10, p. 20.

Corkins, J. P., Range grasshopper investigations. Montana Wool Grower 26. 1952, nr. 11, p. 46, 48.

Cunliffe, F., Biology of the cockroach parasite, Pimeliaphilus podapolipophagus Tragardh, with a discussion of the genera Pimeliaphilus and Hirstiella (Acarina, Pterygosomidae). Proc. ent. Soc. Washington 54. 1952, 153—169.

Davies, D. E., Seasonal breeding and migrations of the desert locust (Schistocerca gregaria Forskål) in north-eastern Africa and the Middle East. Anti-Locust Mem., London, 1952, 57 p., 2 fig., 13 tab. geogr.

Davies, D. E., Statistical analysis of data on the selection experiments. Anti-Locust Bull., London, 1952, 37 p., 5 fig.

Delmas et Rambier, A., Remarques sur l'activité grégaire du criquet marocain en France, en 1951. Compt. rend. Acad. Agric. France 39 (i. e. 38). 1952, 389—391.

Dirsh, V. M., Studies on new and little known African Acrididae (Orthoptera). Rev. Zool., Bot. afr., Bruxelles, 46. 1952, 258—268.

Dirsh, V. M., A study of the genus Tropidauchen Saussure (Orthoptera: Acrididae). Proc. R. ent. Soc. London (Ser. B) 21. 1952, 94—109.

Durand, M. C., Remarque sur l'évolution des acides nucléiques dans l'ovogénèse de Gryllus bimaculatus. Compt. rend. Acad. Sci., Paris, 235. 1952, 824—826.

Edmunds, L. R., Some notes on the habits and parasites of native wood-roaches in Ohio (Orthoptera: Blattidae). Ent. News, Philadelphia, 63. 1952, 141—145.

Ergene, S., Farbanpassung entsprechend der jeweiligen Substratfärbung bei Acrida turrita. Ztschr. vergl. Physiol. 34. 1952, 69—74, 1 Abb.

Ergene, S., Spielt das Auge beim homochromen Farbwechsel von Acrida turrita eine Rolle? Ztschr. vergl. Physiol. 34. 1952, 159—162.

Erkılıç, S., ve Teoman, N., Diyarbakır'da madrap çekirgesi (Locusta migratoria Ph. danica L.) durumu ve savaş, denemeleri. (Experiments with some synthetic insecticides against migratory locust in Southeastern Turkey.) Bitki Koruma Bült. (Bull. Plant Prot.), Ankara, 1952, nr. 2, p. 50—56.

Evans, E. J., The stridulation noise of locusts. Proc. R. ent. Soc. London 27 (ser. A). 1952, 39—42.

Fabre, J. H., Von Heuschrecken, Grillen und Gottesanbeterinnen. (Aus dem Französischen übertragen von H. Bartuschek.) Jugendbuchverlag E. Wunderlich, Leipzig 1952. 115 S., zahlr. Abb., 5 Farbtaf. (Erlebte Welt Bd. 9).

Fernando, H. E., Roan, C. C., and Kearns, C. W., The penetration and metabolism of organic phosphates in the American roach, Periplaneta americana (Linn.). Ann. ent. Soc. Amer. 44 (1951). 1952, 551—565, 1 fig.

Fulton, B. B., Speciation in the field cricket (Acheta). Evolution 6. 1952, 283—295.

Gaston, J., Lucha internacional contra la langosta Schistocerca cancellata (Serville). In: Comité Interamericano Permanente Antiacridiano, Sesión Extraordinaria, Buenos Aires, 1952, 175—179.

Gaulden, M. E., Loemker, K., and Darden jr., E. B., Fragmentation of chromosomes in grasshopper neuroblasts by beta rays and X rays. J. Tennessee Acad. Sci. 27. 1952, 211 (Abstr.).

Gaulden, M. E., Nix, M., and Darden jr., E. B., Fragmentation of chromosomes in grasshopper neuroblasts. J. Tennessee Acad. Sci. 27. 1952, 211 (Abstr.).

Goodhue, L. D., and Linnard, C., Determining the repellent action of chemicals to the American cockroach. J. econ. Ent. 45. 1952, 133—134.

Goodwin, T. W., The biochemistry of locust pigmentation. Biol. Rev., Cambridge, 27. 1952, 439—460.

Goustard, M., et Le Bigot, L. P., Sur certains caractères d'une rétention d'habitudes par Blatella germanica. Compt. rend. Acad. Sci., Paris, 235. 1952, 93—94.

Guha, A., De, M. L., and Raychaudhuri, S. P., Electron microscopic study of grasshopper chromosomes. Nature, London, 170. 1952, 360—361, 1 fig.

Gunn, D. L., Control of red locusts (Nomadacris septemfasciata) by insecticides. J. Sci. Food, Agric., London, 3. 1952, 289—296.

Gunn, D. L., Field tests of dry baiting against the desert locust, Schistocerca gregaria (Forsk.). Bull. ent. Res. 42. 1952, 675—690, 6 fig.

Gunn, D. L., The red locust (Nomadacris septemfasciata). J. R. Soc. Arts, London, 100. 1952, 261—284, 5 fig., 4 tab. geogr.

Gunn, L., Hunter-Jones, P., and **Davies, D. E.,** Laboratory experiments on phase differences in locusts. — Statistical analysis of data on the selection experiments. Anti-Locust Bull., London, 12. 1952, 37 p., 5 fig.

Gurney, A. B., The correct spelling of the generic name of the German cockroach. J. econ. Ent. 45. 1952, 752.

Gurney, A. B., Notes on the biology and immature stages of a cricket parasite of the genus Rhopalosoma. [Hapithus agitator host for Rhopalosoma] Proc. US Nat. Mus. 103. 1953, 19—34.

Handford, R. H., and **Putnam, L. G.,** Efficiency of grasshopper baits in relation to time of day of application. Canad. Entomologist 84. 1952, 147—155.

Hanna, R. L., and **Gaines, J. C.,** Insecticidal control of grasshoppers. J. econ. Ent. 45. 1952, 139.

Harper, R. W., Grasshoppers in California. Bull. Dept. Agric. Calif. 41. 1952, 105—112.

Harper, R. W., Grasshoppers of economic importance in California. Bull. Dept. Agric. Calif. 41. 1952, 153—175.

Harper, R. W., Mormon cricket [Anabrus simplex] infestation – eastern Sierra and Lassen Counties. Bull. Dept. Agric. Calif. 41. 1952, 144—146.

Herfs, A., Der Schwarmflug von Reticulitermes lucifugus Rossi. Ztschr. angew. Ent. 33. 1952, 69—77.

Hilchey, J. D., and **Patton, R. L.,** Effects of irregular sex ratios on growth response data from nutritional assays upon Blattella germanica (L.). Contrib. Boyce Thompson Inst. 16. 1952, 455—459.

Hogan, C. A., La lucha contra la langosta. Rev. Bolsa Com., Rosario (Argent.), 40. 1952, nr. 979, p. 7—8.

Hogan, T. W., Aerial spraying against Australian plague locust in Victoria. Trans. IXth int. Congr. Ent., Amsterdam, 1 (1951). 1952, 1062—1064.

Hogan, T. W., Aerial spraying of locusts: campaign in north-western Victoria. J. Dept. Agric. Victoria 50. 1952, 112—114, 2 fig., 1 tab. geogr.

Hyde, G. E., The lives of grasshoppers. Country Life, London, 112. 1952, 1122.

Jannone, G., Contributi alla conoscenza morfo-biologica e sistematica dell'Ortotterofauna dell'Eritrea. VI. Numero e successione delle generazioni annuali di Schistocerca gregaria (Forsk.) ph. gregaria di possibile sviluppo in Eritrea durante un ciclo evolutivo. Boll. Lab. Ent. Agr. »Filippo Silvestri«, Portici, 11. 1952, 193—215, 1 fig.

Jenkins, W. G., Middle East fight against locusts. Allahabad Farmer 26. 1952, 57—59.

Joly, P., Déterminisme de la pigmentation chez Acrida turrtia L. (insect orthoptéroïde). Compt. rend. Acad. Sci., Paris, 235. 1952, 1054—1056.

Joly, P., Production d'adultoïdes chez Locusta migratoria L. (insecte orthoptéroïde). Compt. rend. Acad. Sci., Paris, 235. 1952, 1555—1557.

Joyce, R. J. V., The ecology of grasshoppers in East Central Sudan. Anti-Locust Bull., London, 11. 1952, 99 p., 34 fig.

Joyce, R. J. V., Field trials with various dry baits against the desert locust, Schistocerca gregaria (Forsk.). [BHC] Bull. ent. Res. 42. 1952, 691—696.

Kennedy, J. S., Unidirectional movement in migrating locusts. Trans. IXth int. Congr. Ent., Amsterdam, 1 (1951). 1952, 394—400.

Keys, G. B., Grasshoppers. [macrophoto] Outdoors Illustr. 4. 1952, 56—57.

Kihss, P., Un nuevo producto: la aladrina se usa para combatir a la langosta. Mundo agríc., Barcelona, 4. 1952, nr. 39, p. 66.

Knowlton, G. F., Grasshopper control in Utah, 1952. Utah State agric. Coll. Ext. Mimeogr. Ser. 92. 1952, 4 p.

Knowlton, G. F., and **Valcarce, A. C.,** Grasshoppers and related Orthoptera; records and notes, largely from Utah. I—II. Utah State agric. Exp. Stat. Mimeogr. Ser. 386. 1952, 10 p.

Krogh, A., and **Weis-Fogh, T.,** A roundabout for studying sustained flight of locusts. J. exp. Biol. 29. 1952, 211—219.

Kuitert, L. C., and **Connin, R. V.,** Biology of the American grasshopper (Schistocerca americana) in the southeastern United States. Florida Entomologist 35. 1952, 22—23.

Kushnir, T., Heterochromatic polysomy in Gryllotalpa gryllotalpa L. J. Genet., Cambridge, 50. 1952, 361—383.

Lawson, F. A., Structural features of cockroach egg capsules. II. The ootheca of Cariblatta lutea lutea (Orthoptera: Blattidae). Ohio J. Sci. 52. 1952, 296—300.

Lean, O. B., The deser locust situation. FAO Plant Prot. Bull. 1. 1952, 2—4.

Le Berre, J. R., Contribution à l'étude du phénomène de la diapause embryonnaire chez un acridien, Locusta migratoria gallica Rem. (phasis transiens). Trans. IXth int. Congr. Ent., Amsterdam, 1 (1951). 1952, 209—215, 4 fig.

Le Berre, J. R., Le phénomène de la blastocinèse dans les œufs à diapause de Locusta migratoria gallica Rem. Compt. rend. Acad. Sci., Paris, 234. 1952, 1487—1489.

Le Pelley, R., Note on damage to grazing by grasshoppers in Kenya. Bull. ent. Res. 43. 1952, 79—81.

Liebermann, J., Exploración acridiológica en Santa Cruz. IDIA (Inform. Invest. agríc.), Buenos Aires, 5. 1952, nr. 52, p. 9—12.

Logothetis, C., The migratory locust [Schistocerca paranensis] in South America. FAO Plant Prot. Bull. 1. 1952, 33—35, 1 fig.

Lowdermilk, W. C., Of locusts and a lost Eden. [includes discussion of irrigation possibilities in the Middle East] Land 11. 1952, 190—198.

McE. Kevan, D. K., A study of the genus Chrotogonus Audinet-Serville, 1839 (Orthopt., Acrid., Pyrgomorphinae). Mitt. schweiz. ent. Ges. 25. 1952, 87—96, 12 fig.

McE. Kevan, D. K., A summary of the recorded distribution of British orthopteroids. Trans. Soc. brit. Ent. 11. 1952, 165—180.

Maldonado Brussone, R., Informe sobre exploraciones acridiologicas realizadas en el Chaco Boreal y oriente boliviano. In: Comité Interamericano Permanente Antiacridiano, Sesión Extraordinaria, Buenos Aires, 1952, 95—142.

Mallo, R. G., Enemigos del agricultur son los grillotopos. Mundo agríc., Barcelona, 4. 1952, nr. 40, p. 43—44.

Marchionatto, J. B., Los periodos de maximas y minimas de las invasiones de langosta en la Argentina. In: Comité Interamericano Permanente Antiacridiano, Sesión Extraordinaria, Buenos Aires, 1952, 25—28.

Millan, H. G., Gesplazamiento de la langosta en el periodo invernal de 1951. In: Comité Interamericano Permanente Antiacridiano, Sesión Extraordinaria, Buenos Aires, 1952, 89—92.

Misra, A. P., Aspergillus flavus Link, a parasite of the desert locust (Schistocerca gregaria Forsk.). Curr. Sci., Bangalore, 21. 1952, 225.

Momma, E., Further observations on the inner structure of the X-chromosome of Podisma sapporense (Orthoptera). Cytologia, Tokyo, 17. 1952, 156—160.

Moore, St., Laboratory and field tests with vaporized lindane against four species of roaches. J. econ. Ent. 45. 1952, 655—657.

Morales Agacino, E., The locust [Schistocerca paranensis] problem in Central America and Mexico. FAO Plant Prot. Bull. 1. 1952, 18—20.

Mukerji, S., and Chatterjee, S. N., A technique for determining accurately the areas of contact of the body of insects in locomotion with the ground surface. Curr. Sci., Bangalore, 21. 1952, 285—286.

Nakahara, H., Behavior of the mitochondria in cell division, with evidence concerning the kinetic function. [Podisma sapporense] Cytologia, Tokyo, 17. 1952, 168—178.

Norris, M. J., Reproduction in the desert locust (Schistocerca gregaria Forsk.) in relation to density and phase. Anti-Locust Bull., London, nr. 13. 1952, 51 p., 8 fig.

Ogloblin, A., El presente estado del parasitismo de la langosta por las moscas, Acridiophaga caridei (Brethes). In: Comité Interamericano Permanente Antiacridiano, Sesión Extraordinaria, Buenos Aires, 1952, 165—171.

Orcish, F. C., La langosta. I—III. Bol. Inform. Minist. Ganad., Agric. Uruguay 8. 1952, nr. 400, p. 2; nr. 401, p. 11—12; nr. 402, p. 9.

Ortiz, R., El problema de la langosta. [Schistocerca gregaria] Agric. trop. (Colombia) 8. 1952, nr. 7, p. 55—57.

Ostrowskaja, E. N., (Testing benzene hexachloride for controlling the cricket [Gryllotalpa gryllotalpa] in nurseries.) Lesn. Khoz. (USSR) 5. 1952, nr. 2, p. 88—90.

Parker, J. R., Grasshoppers. US Dept. Agric. Yearb. Agric. 1952, 595—605, 1 fig.

Pasquier, R., Colonna-Cesari, X., et Bonfils, J., Sur la détermination des régions grégarigènes du criquet marocain Dociostaurus maroccanus Thünbg. en Corse. Compt. rend. Acad. Sci., Paris, 235. 1952, 1157—1159.

Patel, G. A., and Hadli, S. N., Efficacy of certain new organic insecticides on nymphs of desert locust. [Schistocerca gregaria] Sci. and Cult., Calcutta, 18. 1952, 42—43.

Pepper, J. H., and Hastings, E., The effects of solar radiation of grasshopper temperatures and activities. Ecology 33. 1952, 96—103.

Perdeck, A. C., (Conocephalus dorsalis Latr. var. burri Ebner (Orthopt.).) Ent. Ber., Amsterdam, 14. 1952, 169.

Perez Alcala, R., El problema de la langosta en Bolivia. In: Comité Interamericano Permanente Antiacridiano, Sesión Extraordinaria, Buenos Aires, 1952, 29—31.

Petrik, C., Neka iskustva sa suzbijanjem rovaca. (Some results of Gryllotalpa vulgaris L. control.) Saschtita Bilja (Plant Prot.), Beograd, nr. 12. 1952, 102—104.

Piquett, P. G., and Fales, J. H., Rearing cockroaches for experimental purposes. [Periplaneta americana, Blattella germanica, Supella supellectilium, Blatta orientalis] US Bur. Ent., Plant Quar., Washington, ET — 301. 1952, 12 p.

Podtiaguin, B., Breve informe referente a las invasiones de Schistocerca cancellata (Serville, 1893, Scudder) en el Paraguay desde noviembre de 1950 hasta septiembre de 1951, inclusive. In: Comité Interamericano Permanente Antiacridiano, Sesión Extraordinaria, Buenos Aires, 1952, 51—77.

Pollak, S. W., War on locusts. [Schistocerca gregaria] New Statesman, Nation 44. 1952, nr. 1113, p. 7—8.

Poos, F. W., Get that grasshopper! Windrow 2. 1952, nr. 4, p. 4—5.

Popov, G., Apparent tendency to phase variation in an Iranian grasshopper, Pyrgodera armanta (F. W.) (Orthoptera, Acrididae). Eos, Madrid, 28. 1952, 277—283.

Princis, K., Entomological results from the Swedish Expedition 1934 to Burma and British India. Blattariae. Ark. Zool., Uppsala, 1. 1951, 203—222, 16 fig.

Ramme, W., Orthoptera der Sven Hedin-Expedition nach China 1927—30. Ergänzungen und Berichtigungen zur Bearbeitung durch Y. Sjöstedt 1933. Ark. Zool., Uppsala, 3. 1952, 19—23, 1 fig.

Ramme, W., Die Orthopteren des Elsaß. Mitt. zool. Mus. Berlin 28. 1952, 145—149.

Raychaudhuri, S. P., and Sarkar, I., Frequency of dicentric bridges in meiosis in the grasshopper Gesonia punctifrons, produced by different dosages of X-rays. Science, Lancaster, 116. 1952, 479—482, 1 fig.

Rehn, J. A. G., On attempts to correlate the presence of Brunner's organ in grasshoppers with habits or habitats (Orthoptera: Acridoidea). Ent. News, Philadelphia, 63. 1952, 3—10.

Rehn, J. A. G., The grasshoppers and locusts (Acridoidea) of Australia. Volume I. Families Tetrigidae and Eumastacidae. Commonw. sci., ind. Res. Org., Melbourne 1952. 326 p.

Rehn, J. A. G., Some records of Alaskan Acridoidea (Orthoptera). Ent. News, Philadelphia, 63. 1952, 29—33.

Richards, T. J., Nemobius sylvestris in S. E. Devon. Entomologist, London, 85. 1952, 136—141, 161—166.

Rivinus, M. W., Grasshopper glacier. Frontiers (Mag. natural Hist.), Philadelphia, 16. 1952, 106—108.

Robinson, D., Smith, J. N., and Williams, R. T., Colorimetric determination of the β-glucuronidase activity of locust crop fluid using 8-glucuronosidoquinoline as substrate. [Locusta migratoria, Schistocerca gregaria] Biochem. J., Cambridge, 50. 1952, 13.

Roonwal, M. L., Further observations on directional changes in locusts and other short-horned grasshoppers (Insecta: Orthoptera: Acrididae), and the importance of the third instar. Proc. nat. Inst. Sci. India, Calcutta, 18. 1952, 207—215.

Roonwal, M. L., Variation and post-embryonic growth in the number of antennal segments in the phadka grasshopper (Hieroglyphus nigrorepletus Bolivar), with remarks on the desert locust (Schistocerca gregaria) and other Acrididae (Insecta: Orthoptera). Proc. nat. Inst. Sci. India, Calcutta, 18. 1952, 217—232.

Roth, L. M., The tergal gland of the male cockroach, Supella supellectilium. J. Morph. (and Physiol.), Philadelphia, 91. 1952, 469—475.

Roth, L. M., and Willis, E. R., A study of cockroach behavior. [sex behavior] Amer. Midland Naturalist 47. 1952, 66—129.

Roth, L. M., and Willis, E. R., Tarsal structure and climbing ability of cockroaches. J. exp. Zool., Philadelphia, 119. 1952, 483—517.

Sacktor, B., and Bodenstein, D., Cytochrome coxidase activity of various tissues of the American cockroach, Periplaneta americana (L). J. cell., compar. Physiol., Philadelphia, 40. 1952, 157—161.

Salt, R. W., Some aspects of moisture absorption and loss in eggs of Melanoplus bivittatus (Say). Canad. J. Zool. 30. 1952, 55—82.

Severin, H. C., Chemical control of grasshoppers. South Dakota Farm, Home Res. 3. 1952, 83—85.

Severin, H. C., Grasshopper outlook, 1952. South Dakota Farm, Home Res. 3. 1952, 77.

Shotwell, R. L., Tests with sprays for controlling grasshoppers on farm lands in North Dakota and Texas, 1950—51. US Dept. Agric., agric. Res. Admin., Bur. Ent., Plant Quar., Sept. 1952, 21 p., 3 fig. (Agric. Bull. (Shell) Sept. 1952, 21 p., 3 fig.)

Shulov, A., The development of eggs of Schistocerca gregaria (Forskal) in relation to water. Bull. ent. Res. 43. 1952, 469—476.

Smit, B., Crickets, their habits and their control. Farming South Afr. 27. 1952, 455—456.

Smith, D. S., Handford, R. H., and Chefurka, W., Some effects of various food plants on Melanoplus mexicanus mexicanus (Sauss.) (Orthoptera: Acrididae). Canad. Entomologist 84. 1952, 113—117.

Smith, R. W., Another method of rearing grasshoppers (Orthoptera) in the laboratory. Canad. Entomologist 84. 1952, 269—271.

Steel, W. O., House-flies as enemies of locusts in captivity. Ent.'s mon. Mag., London, 84, 1948, 259.

Stegwee, D., The effect of parathion and DDT on cholinesterase activity in the roach (Periplaneta americana L.). Trans. IXth int. Congr. Ent., Amsterdam, 1 (1951). 1952, 348—350.

Sternburg, J., and Kearns, C. W., The presence of toxins other than DDT in the blood of DDT-poisoned roaches. Science, Lancaster, 116. 1952, 144—147, 1 fig.

Strohecker, H. F., Descriptions of new species and notes on North American Orthoptera. Amer. Midland Naturalist 48. 1952, 683—688.

Tetefort, J., Collaboration de l'aviation dans la lutte contre les acridiens migrateurs dans le Nord-Ouest de Madagascar au cours de l'année 1951. Phytoma, Paris, 5. 1952, nr. 38, p. 12—15, 1 tab. geogr., 2 fig.

Tunblad, B., Några råd för bekämpning av tvestjärtar. Växtskyddsnotiser, Stockholm, 16. 1952, 61—63, 1 fig.

Uvarov, B. P., Desert locust; the 1951 campaign. [Schistocerca gregaria] Corona 4. 1952, 67—68.

Uvarov, B. P., and Dirsh, V. M., Orthoptera collected in Iran. Verh. naturforsch. Ges. Basel 63. 1952, 1—16

Vinson, E. B., The effect of temperature on several factors influencing the toxicity of DDT to Periplaneta americana L. Univ. Illinois Abstr. Thesis, Urbana 1952, 4 p.

Vinson, E. B., and Kearns, C. W., Temperature and the action of DDT on the American roach. J. econ. Ent. 45. 1952, 484—496, 4 fig.

Wakeland, C., and Parker, J. R., The Mormon cricket (Anabrus simplex). US Dept. Agric. Yearb. Agric. 1952, 605—608, 2 fig.

Weidner, H., Heuschreckenprobleme in Australien. Ztschr. Pfl.krankh. 59. 1952, 323—326.

Weis-Fogh, T., Weight economy of flying insects. [Schistocerca gregaria] Trans. IXth int. Congr. Ent., Amsterdam, 1 (1951). 1952, 341—347, 1 fig.

Wesley, W. K., Atractomorpha crenulata Fb. (a common destructive grasshopper and its control). Allahabad Farmer 25. 1952, 1—6.

York, G. T., and Prescott, H. W., Nemestrinid parasites of grasshoppers. J. econ. Ent. 45. 1952, 5—10, 2 fig.

Dermaptera

Chant, D. A., and McLeod, J. H., Effects of certain climatic factors on the daily abundance of the European earwig, Forficula auricularia L. (Dermaptera: Forficulidae), in Vancouver, British Columbia. Canad. Entomologist 84. 1952, 174—180.

Cox, J. A., The European earwig in Erie County, Pennsylvania. J. econ. Ent. 45. 1952, 132.

Knowlton, G. F., Control the earwig (Forficula auricularia). Utah State agric. Coll. Ext. Circ. 170. 1952, 2 p.

Lyons, C., The European earwig (Forficula auricularia) and its control. US Bur. Ent., Plant Quar., Washington, EC—25. 1952, 5 p.

McLeod, J. H., and Chant, D. A., Notes on the parasitism and food habits of the European earwig, Forficula auricularia L. (Dermaptera: Forficulidae). Canad. Entomologist 84. 1952, 343—345.

Perttunen, V., Seasonal change in the humidity reaction of the common earwig, Forficula auricularia. Nature, London, 170. 1952, 209—210.

Isoptera

Ahmad, M., The genus Cryptotermes (Isoptera, Kalotermitidae) in India and Pakistan. Proc. Pakistan Sci. Conf. 4. 1952, nr. 3, p. 71 (Abstr.).

Becker, G., Beobachtung der Kopulation bei Calotermes flavicollis Fabr. (Isoptera). Zool. Anz. 148. 1952, 270—273.

Buchli, H. H. R., Antennopsis gallica, a new parasite on termites. Trans. IXth int. Congr. Ent., Amsterdam, 1 (1951). 1952, 519—524, 3 fig.

Clements, W. B., Termite shields, are they effective in subterranean termite control? Pest Control 20. 1952, nr. 11, p. 29—30.

De Mello, I. F., Contribution à l'étude des micro-parasites des termites brésiliens. I. Sur une »Devescovina« du termite africain »Cryptotermes havilandi« (Sjöstedt), fixé dans le sol brésilien. Rev. bras. Biol., Rio de Janeiro, 12. 1952, 433—445.

Emerson, A. E., The neotropical genera Procornitermes and Cornitermes (Isoptera, Termitidae). Bull. amer. Mus. natural Hist., New York, 99. 1952, 475—539.

Ernst, E., Vom »Liebesspaziergang« der Termiten. Leben u. Umwelt (Schweiz) 8. 1952, 257—259.

Gay, F. J., A rare termite intercaste. [Microcerotermes] Austr. J. Sci. 14. 1952, 127—128.

Grassé, P. P., Le polimorphisme des termites et la determination des castes. Trans. IXth int. Congr. Ent., Amsterdam, 1 (1951). 1952, 51—62, 7 fig.

Grassé, P. P., et Noirot, C., Nouvelles recherches sur la biologie de devers termites champignonnistes (Macrotermitinae). Ann. Sci. naturelles, Zool., Biol. anim., Paris, 13. (ser. 11). 1952, 291—342.

Gunn, J. W., What termite operations must consider when fulfilling a Government bid. Pest Control 20. 1952, nr. 2, p. 14, 16, 18.

Herfs, A., Die wirtschaftliche Bedeutung der Termiten in tropischen Ländern. (»Die Termitenstation der Farbenfabriken Bayer in Leverkusen«, Teil II.) Leverkusen 1952. 39 S., 31 Abb.

Hetrick, L. A., The comparative toxicity of some organic insecticides as termite soil poisons. J. econ. Ent. 45. 1952, 235—237.

Howell, J. L., Safety is part of every termite job, too! Pest Control 20. 1952, 27.

Hunt, G. M., and Snyder, T. E., An international termite exposure test; twenty-first progress report. Proc. Wood Preserv. Assoc. 48. 1952, 314—327.

Jucci, C., and Springhetti, A., Evolution of seminal vesicles in Isoptera. Trans. IXth int. Congr. Ent., Amsterdam, 1 (1951). 1952, 130—132.

Kalshoven, L. G. E., Observations on the attractiveness of certain materials for termites. Ent. Ber., Amsterdam, 14. 1952, 188—190.

Kühlhorn, F., Termitenfeinde. Natur u. Volk 82. 1952, 49—53, 7 Abb.

Lind, S. L., Can owners conceal termite presence in property offered for sale? Pest Control 20. 1952, nr. 4, p. 35.

Lüscher, M., New evidence for an ectohormonal control of caste determination in termites. Trans. IXth int. Congr. Ent., Amsterdam, 1 (1951). 1952, 289—294, 2 fig.

Lüscher, M., Die Produktion und Elimination von Ersatzgeschlechtstieren bei der Termite Kalotermes flavicollis Fabr. Ztschr. vergl. Physiol. 34. 1952, 123—141, 7 Abb.

Lüscher, M., Untersuchungen über das individuelle Wachstum bei der Termite Kalotermes flavicollis Fabr. (Ein Beitrag zum Kastenbildungsproblem.) Biol. Zentralbl. 71. 1952, 529—543, 6 Abb.

Newell, R. E., Control for ants and termites. [chlor kil 5 dust] Amer. Bee J. 92. 1952, 67.

Pepper, J. O., and Gesell, S. G., The control of termites and insects mistaken for them. Pennsylv. State Coll. agric. Ext. Circ. 400. 1952, 14 p.

Ratcliffe, F. N., Gay, F. J., and Greaves, T., Australian termites; the biology, recognition, and economic importance of the common species. Commonw. sci., ind. Res. Org., Melbourne 1952. 124 p.

Richard, G., L'innervation et les organes sensoriels des pièces buccales du termite à cou jaune (Kalotermes flavicollis Fab.). Ann. Sci. naturelles. Zool., Biol. anim., Paris, 13 (ser. 11). 1952, 397—412.

Secrest, H. C., New insecticides for the control of subterranean termites. Proc. Assoc. south. agric. Workers 49. 1952, 88—89.

Shelford, V. E., Termite treatment with aqueous solution of chlordane. J. econ. Ent. 45. 1952, 127, 544.

Snyder, T. E., Dection of termites by microphones. Pest Control 20. 1952, nr. 7, p. 33—34.

Snyder, T. E., Past termite research predicts future trends. Pest Control 20. 1952, nr. 12, p. 14, 16, 18.

St. George, R. A., Testing soil poisons for termite control. I, II. Pest Control 20. 1952, nr. 4, p. 36; nr. 6, p. 32.

St. George, R. A., Tests with new insecticides for termite control. Pest Control 20. 1952, nr. 2, p. 20.

Steer, H. B., Termites, an unnecessary evil. Amer. Forests 58. 1952, nr. 9, p. 26, 44—45.

Thomas, V. E., Contracts, guarantees, advertising and bonds in termite control. Pest Control 20. 1952, nr. 3, p. 33—34.

Vieira, R., (Considerations on the »white ant«.) Frutas Madeira 12. 1952, 277—278.

Volk, H. O., Pilzgärten und Klimaanlagen im Termitenbau. Orion 7. 1952, 41—43.

Webb, J. E., The taxonomy of termites and its importance to agriculture. Trans. IXth int. Congr. Ent., Amsterdam, 1 (1951). 1952, 771—775, 2 fig.

White, A. N., Soil poisons may be used for control of termites. Texas Farming, Citric. 28. 1952, nr. 9, p. 18.

Wilson, H. B., Termites in southern Victoria. J. Dept. Agric. Victoria 50. 1952, 471—472.

Zimmern, A., Precautions in the use of oil products with termite chemicals. Pest Control 20. 1952, nr. 5, p. 29—30, 32—34.

Thysanoptera

Düzgüneş, Z., (Taeniothrips simplex Morison.) Bitki Koruma Bült. (Bull. Plant Prot.), Ankara, nr. 3. 1952, 27—30.

Karman, M., Tütünlerde Zararlı Thrips tabaci Lin'e Karşı İlâçlı Mücadele Raporudur. [Thrips tabaci] Bitki Koruma Bült. (Bull. Plant Prot.), Ankara, nr. 4. 1952, 26—28.

Melis, A., Tisanotteri italiani. IX. Genus Thrips. Redia, Firenze, 37 (2. ser.). 1952, 1—67, 21 fig., 4 tab.

Oettingen, H. v., Blasenfüße. Neue Brehm-Bücherei, Leipzig, H. 89. 1952, 40 S., 18 Abb.

Oettingen, H. v., Die Thysanopterenfauna des Harzes. IV. Die Thysanopteren der Kulturflächen. Beitr. Ent., Berlin, 2. 1952, 586—604.

Pelikan, J., Přehled třásňokřídlých z Československa. (A list of Czechoslovak Thysanoptera.) Zool., ent. Listy (Folia zool., ent.), Brno (CSR), 1. 1952, 185—195.

Standard, L. J., The phylogeny and reclassification of the North American genera of Phlaeothripidae (Thysanoptera: Tubulifera). Univ. Illinois Abstr. Thesis, Urbana 1952. 3 p.

Heteroptera

Bailey, N. S., Lace bugs (Stephanitis) on broad-leaved evergreens. Horticulture 30. 1952, 303, 319.

Brook, T. St., and Dahm, P. A., The toxicity of aldrin, dieldrin, and DDT to the large milkweed bug. [Oncopeltus fasciatus] J. econ. Ent. 45. 1952, 349—350.

Chandler, S. C., How to control tarnished plant bugs and stink bugs causing cat-facing. [Euschistus species, Lygus species, Acrostermum hilaris] Proc. amer. Assoc. econ. Entomologists, North Centr. States Br., 7. 1952, 27—29.

China, W. E., and Carvalho, J. C. M., The »Cyrtopeltis-Engytatus« complex (Hemiptera, Miridae, Dicyphini). Ann., Mag. natural Hist., London, 5. 1952, 158—166, 3 fig.

Collias, E. C., McShan, W. H., and Lilly, J. H., Oxidative enzyme systems of the large milkweed bug, Oncopeltus fasciatus (Dallas), and the effect of sabadilla on them. J. cell., compar. Physiol., Philadelphia, 40. 1952, 507—527.

Dündar, I. T., Aelia rostrata üzerinde bir etüt. (Some observations and investigations on Aelia rostrata.) Bitki Koruma Bült. (Bull. Plant Prot.), Ankara, 1952, nr. 4, p. 46—49, 3 fig.

Dupuis, C., Sur une larve d'hymenoptère braconide parasite de pentatomides (Hem. Heteroptera). Trans. IXth int. Congr. Ent., Amsterdam, 1 (1951). 1952, 539—540.

Feldman, A. E., and **Bailey, N. S.,** The taxonomic value of the ovipositor in the new England species of the genus Corythucha Stal. (Hemiptera: Tingidae). Psyche, London, 59. 1952, 96—104.

Frings, H., and **Peissner, L.,** Substitutes for milkweed seeds in the rearing of milkweed bugs. J. econ. Ent. 45. 1952, 752.

Frost, S. W., Miridae from light traps. J. New York ent. Soc. 60. 1952, 237—240.

Halászfy, C. E., La révision des espèces Sciocoris Fall. (Hemipt., Pentatomidae) de la Hongrie et de ses territoires environments. Országos Természettudományi Múzeum Évkönyve (Ann. hist.-natur. Mus. nat. hung.), Budapest, 2 (n. ser.). 1952, 147—156, 27 fig.

Leston, D., Notes on the Ethiopian Pentatomoidea (Hemiptera). VI. Ann., Mag. natural Hist., London, 5 (ser. 12). 1952, 893—904.

Leston, D., Oncotylus viridiflavus Goeze (Hem., Miridae) and its food-plant, knapweed (Centaurea nigra). Entomologist, London, 85. 1952, 19—21.

Medler, J. T., Plant bug control in Wisconsin. [Adelphocoris lineolatus, Lygus oblineatus] Proc. amer. Assoc. econ. Entomologists, North Centr. States Br., 7. 1952, 36—37.

Pendergrast, J. G., Studies on the biology of pentatomid bugs of the genus Rhopalimorpha Dallas (Heteroptera). Trans. R. Soc. New Zealand 80. 1952, 143—153.

Porter, T. W., A new species [Hebrus piercei] of Hebridae (Hemiptera) from the Southwest. J. Kansas ent. Soc. 25. 1952, 147—149.

Sailer, R. I., A review of the stink bugs of the genus Mecidea. Proc. US Nat. Mus., Washington, 102. 1952, 471—505, 2 tab.

Slater, J. A., and **Davis, N. T.,** The scientific name of the tarnished plant bug (Hemiptera, Miridae). Proc. ent. Soc. Washington 54. 1952, 194—198.

Spuris, Z., (Materialien zur Wanzenfauna (Heteroptera).) LPSR ZA Vēstis 1950, nr. 8, p. 83—94; 1951, nr. 1, p. 149—154; 1952, nr. 12, p. 153—159.

Usinger, R. L., Two new Orsillini from Kilimanjaro (Hemiptera: Lygaeidae). Proc. R. ent. Soc. London 21 (ser. B). 1952, 140—146.

Vidal, J. P., Hémiptères, hétéroptères nouveaux du Maroc. Bull. Soc. Sci. naturelles Maroc, Rabat, 31. 1952, 57—64.

Wakeland, C., The chinch bug. [Blissus leucopterus] US Dept. Agric. Yearb. Agric. 1952, 611—614.

Woodroffe, G. E., A note on the food plants of Coriomeris denticulatus (Scop.) (Hem., Coreidae). Ent.'s mon. Mag., London, 88. 1952, 255.

The Rutherglen bug (Nysius vinitor). New South Wales Dept. Agric. Insect Pest Leafl. 6. 1952, 2 p.

Homoptera

Astelarra, L. P., y Rothlin, R. E., Aparición y difusión del psilido del peral (Chermes pyricola F.) en el alto valle del Rio Negro y Neuquén; primeros resultados de un ensayo de insecticidas comerciales. IDIA (Inform. Invest. agríc.), Buenos Aires, 5. 1952, nr. 55, p. 1—5.

Auclair, J. L., and **Maltais, J. B.,** Occurrence of gamma-amino-butyric acid in extracts of Pisum sativum (L.) and in the honeydew of Myzus circumflexus (Buck.). Nature, London, 170. 1952, 1114—1115, 2 fig.

Balachowsky, A. S., Coccoidea-Diaspidinae nouveaux de Guinée française (A. O. F.). Rev. Path. vég., Ent. agric. France 31. 1952, 121—133, 4 tab.

Balachowsky, A. S., Sur deux Diaspidinae (Hom. Coccoidae) nouveaux de Moyenne Guinée (A.O.F.). Bull. Soc. ent. France 57. 1952, 98—104.

Bodenstein, G., Ein Freiland-Massenvorkommen von Trialeurodes vaporariorum Westw. Anz. Schädl.-kunde 25. 1952, 57—59.

Börner, C., Die Blattläuse Mitteleuropas. Mitt. thür. bot. Ges. 3. 1952, 484 S.

Börner, C., Die Blattlausgattungen Myzus und Myzodes. Beitr. Ent., Berlin, 2. 1952, 122—127.

Börner, C., Europae centralis Aphides, Die Blattläuse Mitteleuropas: Namen, Synonyme, Wirtspflanzen, Generationzyklen. Mitt. thür. bot. Ges. Beih. 3. 1952, 484 S. (Schr. thür. Landesarb.gem. Heilpfl. kunde, -beschaff. Weimar H. 4).

Bongiovanni, G. C., (Control of scale insects.) Inform. Fitopat., Bologna, 2. 1952, 1—4.

Boratynski, K. L., Observations on Matsucoccus pini (Green) and a species of Matsucoccus Ckll. from Russia (Homoptera, Coccoidea, Margarodidae). Ann., Mag. natural Hist., London, 5 (ser. 12). 1952, 507—508.

Büch, C., Feinde der Blattläuse. Saarl. Bauernbl. 6. 1952, 187.

Burks, B. D., A new mealybug parasite (Hymenoptera: Encyrtidae). [Anatbrix n. g.] J. New York ent. Soc. 60. 1952, 179—182.

Cano del Castillo, A., Eliminación del afidio o piojo de las plantas en las huertas. Bol. Cám. Com., Ind. Tegucigalpa 6. 1952, nr. 72, p. 45—47.

China, W. E., and **Fennah, R. G.,** A remarkable new genus (Hypochthonella) and species of Fulgoroidea (Homoptera) representing a new family (Hypochthonellidae). Ann., Mag. natural Hist., London, 5 (ser. 12). 1952, 189—199.

Ciampolini, M., La comparsa del Macrocerococcus superbus Leon. (Hemiptera Coccoidea) in Toscana su nuove piante ospiti. „Redia", Giorn. Ent., Firenze, 37 (2. ser.). 1952, 327—331, 1 fig.

Cottier, W., Endemic aphids in New Zealand. R. Soc. New Zealand Sci. Congr. Rept. 7. 1952, 87—91.

Cumber, R. A., Notes on the biology of Melampsalta cruentata Fabricius (Hemiptera-Homoptera: Cicadidae), with special reference to the nymphal stages. Trans. R. ent. Soc. London 103. 1952. 219—237.

Dantas, B., De Farias, E. L., and **Franco, E.,** (Aerial spraying to control the „cigarrhinha" [Tomaspis liturata ruforivulata] in Sergipe.) Brasil. açucar., Rio de Janeiro, 40. 1952, 214—223.

Dean, H. A., Natural enemies of scale insects in the Lower Rio Grande Valley of Texas. Proc. Rio Grande Valley hortic. Inst. 6. 1952, 38—41.

DeBach, P., Biological control of red-scale in San Diego County. [Aonidiella aurantii by Aphytis chrysomphali and Comperiella bifasciata] Calif. Citrogr. 37. 1952, 136—137, 158—160.

DeBach, P., Purple scale (Lepidosaphes beckii) parasites in Southern California. Calif. Citrogr. 38. 1953, 219—222.

Delanoue, P., Enseignements à tirer d'un traitement expérimental contre Aphis rumicis [i. e. fabae] L. sur fèves en année sèche. Compt. rend. Acad. Agric. France 38. 1952, 145—148.

Dickson, R. C., Construction of the scale covering of Aonidiella aurantii (Mask.). Ann. ent. Soc. Amer. 44 (1951). 1952, 596—602, 2 fig.

Ditman, L. P., and **Burkhardt, G.,** Further experiments on pea aphid control. J. econ. Ent. 45. 1952, 880—881.

Dos S. Vilar, J. M., (Contributions to the study of Ceroplastes species (Insecta, Coccidae) of Portugal.) Brotéria, Lisboa, 21. 1952, 1—62.

Doull, K. M., Aphids or plant lice. Bull. Lincoln Coll. rur. Educ. 7. 1952, 2—12.

Düzgüneş, Z., Aonidiella cinsi ve Türkiye'de bulunan nevileri. Bitki Koruma Bült. (Bull. Plant Prot.), Ankara, 1952, nr. 4, p. 7—10, 2 fig.

Dupius, C., Notes, remarques et observations diverses sur les hémipteres, deuxième série: V. Ceresa bubalus (F.) en Touraine (Membracidae). Feuille Naturalistes, Paris, 7 (n. ser.). 1952, 73.

Dušková, F., Vergleich der morphologischen Hauptmerkmale der Schildläuse Quadraspidiotus piri (Lichtenstein) und Quadraspidiotus mařani Zahradník. Beitr. Ent., Berlin, 2. 1952, 452—455, 2 Abb.

Essig, E. O., The aphid genus Periphyllus: A systematic, biological, and ecological study. Univ. Calif., Berkeley — Univ. Press, London 1952. 166 p.

Essig, E. O., A new genus [Gentnera] and species of Aphidae on scotch broom in Oregon (Homoptera). Pan-Pacific Ent. 28. 1952, 215—219.

Farský, R., Křískové na zemědělských plodinách v okolí prahy. (The cicadines on the agricultural plants in the environs of Praha.) Zool., ent. Listy (Folia zool., ent.), Brno (CSR), 1. 1952, 75—80, 6 fig.

Ferris, G. F., Report upon scale insects collected in China (Homoptera: Coccoidea). III. Microentomology (Calif.) 17. 1952, 6—16.

Ferris, R. S., Collecting on Si-shan. [collecting scale insects] Pacific Discovery 5. 1952, 18—24.

Flanders, St. E., Climate and tree condition as factors in scale control. Calif. Citrogr. 37. 1952, 232, 254—256.

Fraser, L. R., A disease of a scale insect. [Harpographium corynelioides on Calicoccus [i. e. Callococcus] leptospermi] Austr. Plant Dis. Recorder 4. 1952, 39.

Gentile, G., (Insecticides for Coccidae considered in relation to their effectiveness and the best percentages of utilization.) Giorn. agr., Roma, 62. 1952, 85—86.

Gipple, O. B., and **Champlain, A. B.,** The seventeen year locust (Magicicada septendecim). Pennsylv. Forests, Waters 4. 1952, 50—51, 64—65.

Guston, D., They all fight aphis; an account of some of the gardener's allies in his fight against these pests. Allotm., Home Gard. 103. 1952, 4, 7.

Hille Ris Lambers, D., Über Myzus persicae Sulzer. Beitr. Ent., Berlin, 2. 1952, 119—121.

Hottes, F. C., Descriptions and notes on two rare species of Aphididae. J. Wash. Acad. Sci. 42. 1952, 127—129.

Hottes, F. C., A new species of Amphorophora (Aphididae). Proc. biol. Soc. Washington 65. 1952, 131—133.

Hottes, F. C., Notes on two little known Aphid papers, published by Luigi Macchiati. Great Basin Naturalist, Provo (Utah), 12. 1952, 55—61.

Hussey, R. F., Food plants and new records for some Hemiptera in Florida. Florida Entomologist 35 1952, 117—118.

Islas S., F., La vida de la mosca prieta [Aleurocanthus woglumi]. Crédito, Técn. agr. 1. 1952, nr. 36, p. 5—9.

Itoga, S., and **Sakai, H.,** (An example of hibernation of brown planthopper (Nilaparvata lugens Stal).) Kyushu Noji Shikenjo 10. 1952, 164—166.

Jenkins, C. F. H., Insect pests and their control; aphids. J. Dept. Agric. west. Austr. 1 (ser. 3). 1952, 661, 663—666.

Johnson, C. G., The changing numbers of Aphis fabae Scop. flying at crop level, in relation to current weather and to the population on the crop. Ann. appl. Biol. 39. 1952, 525—547, 7 fig.

Johnson, C. G., The role of population level, flight periodicity and climate in the dispersal of aphids. Trans. IXth int. Congr. Ent., Amsterdam, 1 (1951). 1952, 429—431.

Kamat, M. N., Patel, M. K., and **Dhande, G. W.,** Occurrence of the green muscardine fungus on Pyrilla sp. in Bombay. Curr. Sci., Bangalore, 21. 1952, 317.

Kaussari, M., Sur une cochenille nouvelle du sud-est de l'Iran. Rev. Path. vég., Ent. agric. France 31. 1952, 181—184, 5 fig.

Keyder, S., Diaspis pentagona' ya karsi parazit mucadelesi. (Bekämpfung von Diaspis pentagona mit Parasiten.) Tomurcuk, Istanbul, 1952, nr. 6, p. 9.

Kontkanen, P., Über das holarktische, boreale und östliche Faunenelement in der Zikadenfauna Finnlands. (Vorläufige Mitteilung.) Trans. IXth int. Congr. Ent., Amsterdam, 1 (1951). 1952, 561—563.

Koreishi, K., and **Nogaki, K.,** (A forecasting method of white-black planthopper and brown planthopper in Kumamoto Prefecture.) Kyushu Noji Shikenjo 10. 1952, 163.

Lambers, D. H. R., New aphids from Sweden. [incl. new species in Hyperomyzus, Aulacorthum, Thripsaphis and Iziphya] Opusc. ent., Lund, 17. 1952, 51—58.

Lanham, U. N., Observations on the supposed intracellular symbiotic microorganisms of aphids. Science, Lancaster, 115. 1952, 459—460, 2 fig.

Le Quesne, W. J., Zygina (Erythroneura) rubrovittata Leth. (Hem., Cicadellidae) new to Britain. Ent.'s mon. Mag., London, 88. 1952, 18.

Linnavuori, R., Studies on the ecology and phenology of the leafhoppers (Homoptera) of Raisio (S. W. Finland). Ann. zool. Soc. zool.-bot. fenn. »Vanamo« 14. 1952, nr. 6, p. 1—32.

Lloyd, D. C., Parthenogenesis in the mealybug, Phenacoccus solani Ferris. Canad. Entomologist 84. 1952, 308—310.

Lowe, A. E., Evidence of the overwintering of greenbugs (Toxoptera graminum) in southwestern Kansas. J. Kansas ent. Soc. 25. 1952, 3—4.

MacGillivray, M. E., Some aphids of the genus Aphis from the Maritime Provences of Canada. Canad. Entomologist 84. 1952, 74—76.

McKenzie, H. L., Scale studies. IX. New parlatoriine scales from India and Egypt, and supplementary notes on other related species (Homoptera; Coccoidea; Diaspididae). [new species in Parlatoria and Parlatoreopsis] Bull. Dept. Agric. Calif. 41. 1952, 9—18.

Maltais, J. B., A simple apparatus for feeding aphids aseptically on chemically defined diets. Canad. Entomologist 84. 1952, 291—294.

Miletić, R., (A contribution to the biology of Aphis fabae Scop.) Saschtita Bilja (Plant Prot.), Beograd, nr. 10. 1952, 66—72, 4 fig.

Miletić, R., (The winter host of Aphis fabae Scop.) [A. fabae Scop. on Evonymus europaea L.] Saschtita Bilja (Plant Prot.), Beograd, nr. 12. 1952, 74—77, 1 fig.

Minatta, M. J., Cochinilla roja australiana; la oportunidad de los tratamientos. Almanaque Minist Agric., Ganad., Buenos Aires, 26/27. 1951/1952, 285—286.

Moericke, V., Farben als Landereize für geflügelte Blattläuse (Aphidoidea). Ztschr. Naturforsch. 7b. 1952, 304—309, 3 Abb.

Müller, F. P., Der jahreszeitliche Massenwechsel der Grünen Pfirsichblattlaus (Myzodes persicae Sulz.). Nachr.bl. dtsch. Pfl.schutzd., Berlin, N. F. 6. 1952, 28—32, 1 Abb.

Neiswander, R. B., Emulsifiable DDT sprays for summer control of scale insects. Proc. amer. Assoc. econ. Entomologists, North Centr. States Br., 7. 1952, 86—87.

Nizamlïoğlu, K., Bazï Aphis (yaprak biti) biyolojisinde görülen memleket hususiyetleri. (Einige hierzulande vorhandene Besonderheiten in der Biologie der Aphiden (Blattläuse).) Tomurcuk, Istanbul, 1952, nr. 4, p. 10—11.

Nowak, W., Untersuchungen über den Massenwechsel der Grünen Pfirsichblattlaus (Myzodes persicae Sulzer) unter Berücksichtigung mikroklimatischer Faktoren. Ztschr. Pfl.bau, -schutz 3. 1952, 1—36, 13 Abb., 1 Landkarte.

Nowak, W., Weitere Untersuchungen über das Vorkommen der Grünen Pfirsichblattlaus (Myzodes persicae Sulzer) als Luftplankton. Ztschr. Pfl.bau, -schutz 3. 1952, 182—189, 1 Landkarte.

Nuorteva, P., Eine Methode zur Untersuchung der die Nährpflanzenwahl regulierenden Stimuli bei Zikaden. Trans. IXth int. Congr. Ent., Amsterdam, 1 (1951). 1952, 273—276, 2 Abb.

Nuorteva, P., Die Nahrungspflanzenwahl der Insekten im Lichte von Untersuchungen an Zikaden. Suomalaisen Tiedeakatemian Toimituksia (Ann. Acad. Sci. fenn.), Helsinki (Ser. A), 4. 1952, nr. 19, p. 1—90.

Ossiannilsson, F., Bladlöss i växthus än en gång. [Myzus persicae] Växtskyddsnotiser, Stockholm, 16. 1952, 53—57.

Oswald, J. W., and **Houston, B. R.,** The greenbug, Toxoptera graminum Rond., a vector of the cereal yellow-dwarf virus. Plant Dis. Reptr. 36. 1952, 182—183.

Owen jr., W. L., Hanna, R. L., and **Gaines, J. C.,** Insecticidal control of greenbugs (Toxoptera graminum). Texas agric. Exp. Stat. Progr. Rept. 1438. 1952, 4 p.

Pillault, R., Notes sur Dryinus tarraconensis (Hym. Dryinidae) prédateur d'une cicadelle. Ann. Soc. ent. France 120 (1951). 1952, 67—76.

Pintera, A., Mšice na rýži. Zool., ent. Listy (Folia zool., ent.), Brno (CSR), 1. 1952, 73—74.

Plate, H.-P., Blattläuse sind Großschädlinge. Mitt.bl. Landesverb. Gartenbau, Landw. Berlin 2. 1952, 82, 1 Abb.

Popham, W. L., Some fundamental problems characteristic of large-scale pest control projects. J. econ. Ent. 45. 1952, 353—357.

Prothon, J., Notes sur la cicadelle en 1952. Rev. agric. Afr. Nord 50. 1952, 746.

Rietschel, P., Über Beinautotomie bei der Blattlaus Drepanosiphon. Biol. Zentralbl. 71. 1952, 544—550, 3 Abb.

Robert, P., La cochenille ronde du mirabellier: Eulecanium corni B. dans l'Est de la France. Compt. rend. Acad. Agric. France 38. 1952, 56—59.

Rosella, E., Dans la lutte contre les pucerons des arbres il y a du nouveau. Progr. agric., vitic. 137. 1952, 214—216.

Roussy, L., Coccides à miellat. Gaz. apic., Montfavet, 53. 1952, 35, 38.

Rowell, J. O., and Whiteside, A. M., The spittlebug [Cercopidae] and how to control it. Virginia agric. Coll. Ext. Circ. 552. 1952, 6 p.

Rudnew, E. D., (Inexpensive silt emulsifier for mineral oil emulsions.) [used to control scale insects] Sad i Ogorod (Orchard and Garden) 1952, nr. 8, p. 43.

Ruppel, R. F., and DeLong, D. M., New species of Idona from Mexico (Homoptera: Cicadellidae). Lloydia, Cincinnati (Ohio), 15. 1952, 188—192.

Rybin, V. A., (DDT preparations for control of false scale insect.) Sad i Ogorod (Orchard and Garden) 1952, nr. 12, p. 44—45.

Schaposchnikow, G. Ch., (Dendrophilous aphids of the steppe and desert zones of the Ural Area.) Trudy Akad. Nauk SSSR zool. Inst. 11. 1952, 92—110.

Schmidt, H., Zur Kenntnis der Wurzellaus Paracletus cimiciformis v. d. Heyd., ein parasitär angepaßter Ameisengast. Ztschr. Parasitenkunde 15. 1952, 283—289.

Schmutterer, H., Die Lebensbaumschildlaus Eulecanium arion (Ldgr.) (Homopt. Coccoidea), die Erzeugerin des Lebensbaumhonigtaues. Ztschr. Bienenforsch. 1. 1952, 128—132.

Schmutterer, H., Die Ökologie der Cocciden (Homoptera, Coccoidea) Frankens. Ztschr. angew. Ent. 33. 1952, 369—420, 38 Abb., 544—584, 9 Abb.; 34. 1952, 65—100.

Schreier, O., Was bei der Blattlausbekämpfung im Feldbau zu beachten ist. Pflanzenarzt, Wien, 5. 1952, Nr. 7, S. 7.

Shibata, B., (Ecological studies of plant lice. VI. With reference to experimental production of males.) [Callipterinola kulikula] Utsunomiya Univ. Coll. Agric. Bull. 1. 1952, 307—318.

Smirnoff, W., Aspidiotiphagus lounsburyi Berl. et Paoli (Chalcidoidea, Aphelinidae) parasite de certaines espèces de Diaspidoidae (Homopt.) au Maroc. Rev. Path. vég., Ent. agric. France 31. 1952, 63—69, 1 fig.

Smit, B., Difference between cochineal insects [Dactylopius coccus] and mealybugs. Farming South Afr. 27. 1952, 481—482.

Smith, G. A., Such insects as plant lice and scale make up the main course in the diet of our friend the ladybug (Coccinellidae). Pennsylv. Farmer 146. 1952, 470—471.

Sokal, R. R., Variation in a local population of Pemphigus. Evolution 6. 1952, 296—315.

Srivastava, A. S., and Hull, W. B., Effect of wind direction on the pea aphid [Macrosiphum pisi] control during dust application. Sci. and Cult., Calcutta, 18. 1952, 191—192.

Stritt, W., Zur Systematik der Systematiker, insbesondere der entomologischen (Hom. Ent.), nebst einer Bestimmungstabelle. Ent. Ztschr., Frankfurt a/M., 62. 1952, 49—53.

Stroyan, H. L. G., The identification of aphids of economic importance. Plant Path., London, 1. 1952, 9—14, 4 fig., 42—48, 6 fig., 92—99, 6 fig., 123—129, 2 tab.

Stroyan, H. L. G., A new aphid genus [Pterasthenia] from East Africa. Proc. R. ent. Soc. London 21 (ser. B). 1952, 149—154.

Stroyan, H. L. G., Records of Cambridgeshire Aphididae. Entomologist, London, 85. 1952, 234—237.

Stroyan, H. G. L., Three new species of British aphids. [Sappaphis, Aphis] Proc. R. ent. Soc. London 21 (ser. B). 1952, 117—130.

Suenaga, H., (Where do leaf-hoppers hibernate?) J. Plant Prot. Tokyo, 42. 1952, 446—451.

Takahashi, R., Aleurotuberculatus and Parabemisia of Japan (Aleyrodidae, Homoptera). Misc. Repts. Res. Inst. nat. Resources, Tokyo, 1952, nr. 25, p. 17—24, 4 fig.

Takahashi, R., Descriptions of five new species of Diaspididae from Japan, with notes on dimorphism in Chionaspis or Phenacaspis (Coccoidea, Homoptera). Misc. Repts. Res. Inst. nat. Resources, Tokyo, 1952, nr. 27, p. 7—15, 6 fig.

Takahashi, R., Some Malayan species of Aleyrodidae (Homoptera). Mushi (Fukuoka ent. Soc.) 24. 1952, pars 6, p. 21—27, 4 fig.

Tofiño Orejuela, T. E., Efecto residual del DDT asociado a las emulsiones de aceite para el control de 3 especies de Diaspididae (Homoptera-Coccoidea). Acta agron. (Colombia) 2. 1952, 161—162.

Weaver, C. R., Fall applications of insecticides to control spittlebug nymphs. [Philaenus leucophthalmus] J. econ. Ent. 45. 1952, 239—241, 2 fig.

Weaver, C. R., Ten suggestions for controlling spittlebug [Cercopidae] nymphs without harmful insecticide residues. Proc. amer. Assoc. econ. Entomologists, North Centr. States Br., 7. 1952, 32—33.

Whitnall, A. B. M., and Winstanley, J. K., The control of mealybugs on vines with chemicals. [hydrocyanic acid and parathion] Plant Prot. Overseas Rev., London, 3. 1952, nr. 2, p. 21—24.

Young jr., D. A., The leafhopper genus Euscelis Brulle in North Africa (Hemiptera). Proc. ent. Soc. Washington 54. 1952, 98.

Young jr., D. A., On the recognition of two economic scaphytopiine leafhoppers (Homoptera, Cicadellidae). [Scaphytopius dubius, S. delongi n. sp.] Proc. ent. Soc. Washington 54. 1952, 246—249.

Zahradník, J., Larvy slunečka Hyperaspis campestris var. concolor Suffr. — Ničitelé některých druhů červců. (Note sur la biologie des larves d'Hyperaspis campestris var. concolor Suffr., prédatrice des coccides en Tchécoslovaquie.) Zool., ent. Listy (Folia zool., ent.), Brno (CSR), 1. 1952, 181—184, 6 fig.

Zahradník, J., Eine neue Schildlausart — Quadraspidiotus mařani n. sp. (Coccoidea: Diaspididae). Beitr. Ent., Berlin, 2. 1952, 449—451, 1 Abb.

Ziegler, O., Die Ausbreitung der Grünen Pfirsichblattlaus unter aerologischen und klimatischen Gesichtspunkten sowie die sich darauf ergebenden Beziehungen zur Infektionsgefahr. Ztschr. Pfl.bau, -schutz 3. 1952, 49—83, 12 Abb.

Zimmermann, F., Lohnt die Blattlausbekämpfung? Dtsch. landw. Presse 75. 1952, 100.

Coleoptera

Allgemeiner Teil
General part — Partie générale

Allen, A. A., The Coleoptera of a suburban garden. 4. Ent. Rec., J. Variation 64. 1952, 92—93.

Arnoldi, L. V., (General review of the beetles of the middle and lower course of Ural River region, their ecological distribution and economic importance.) Trudy Akad. Nauk SSSR zool. Inst. 11. 1952, 44—65.

Brehm, E., und **Hempel, G.,** Untersuchung tagesperiodischer Aktivitätsschwankungen bei Käfern. Naturwissenschaften 39. 1952, 265—266.

Brown, W. J., Some species of Phytophaga (Coleoptera). [including new species in Chlamisus] Canad. Entomologist 84. 1952, 335—342.

Carroll, J., Eelworm and insect pests. V. Beetles and beetle larvae. Agric. Ireland 9. 1952, 268—269.

Dahlgren, G., (Beetles on edge of rain puddles.) Ent. Tidskr. 73. 1952, 65—66.

Hansen, V., (Changes in Danish Coleoptera fauna in recent times.) Ent. Meddel., København, 26. 1952, 438—448.

Jansson, A., (Coleopterological contributions 41—42.) Ent. Tidskr. 73. 1952, 244—247.

Knowlton, G. F., and **Taylor, G. P.,** Beetles-Coleoptera; records and notes, largely from Utah. Utah agric. Exp. Stat. Mimeogr. Ser. 389. 1952, 32.

Kryger, J. P., and **Sonderup, H. P. S.,** (Biological observations on 200 species of Danish Coleoptera larvae. III.) Ent. Meddel., København, 26. 1952, 289—349.

McKeown, K. C., Australian insects. XLV. Coleoptera. Austr. Mus. Mag., Sydney, 10. 1952, 287—289.

Pic, M., Contribution à l'étude du peuplement de la Mauritanie coléoptères divers. 2. Bull. Inst. franç. Afr. noire, Paris, 14. 1952, 489—512.

Pic, M., Nouveaux coléoptères du Maroc. Compt. rend. Soc. Sci. nat., phys. Maroc 1952, nr. 3, p 65—66.

Poschinger, F. v., Beitrag zur Kenntnis der Koleopterenfauna des Donautales und des Bayrischen Waldes. Ent. Bl. 45—46 (1949—50). 1951, 18—21.

Stäger, R., Biologische Beobachtungen an Käfern im Wallis. Mitt. schweiz. ent. Ges. 24. 1951, 125—128.

Theodorides, J., Notes complémentaire sur l'allotropie chez les coléoptères. Feuille Naturalistes, Paris, 7. 1952, 87—90.

Käfer als Schädlinge. Gesunde Pflanzen 4. 1952, 196—197, 6 Abb.

Carabidae

Basilewsky, P., Sur quelques coléoptères Carabidae de Fernando Poo. [includes new genus Paracoryza; new species in Metalebia and Egadroma] Eos, Madrid, 28. 1952, 233—248.

Colas, G., Note sur un Carabus (Col. Carabidae) français. Bull. Soc. ent. France 57. 1952, 81—83.

Colas, G., Une sous-espèce nouvelle de Ceuthosphodrus oblongus Dej. (Col Carabidae). Bull. Soc. ent. France 57. 1952, 133.

De Mire, P. B., Coléoptères carabiques endémiques ou d'origine tropicale de la région du Sous (Maroc méridional). Bull. Soc. ent. France 57. 1952, 130—133.

Landin, B. O., (Harpalus autumnalis Dft. in Sweden (Col. Carab.).) Ent. Tidskr. 73. 1952, 146—150.

Straneo, S. L., (On Caelostomini (Coleopt. Carabid.) of Fernando Poo.) Eos, Madrid, 28. 1952, 271—275.

Staphylinidae

Blackwelder, R. E., The generic names of the beetle family Staphylinidae, with an essay on genotype. US Nat. Mus. Bull. 200. 1952, 483 p.

Brakman, P. J., (Quedius subfuliginosus Britten (Col., Staph.), a new short tortoise beetle for the Dutch fauna.) Ent. Ber., Amsterdam, 14. 1952, 83.

Brundin, L., Acrotona-Studien (Gattung Atheta, Col., Staphylinidae). Ent. Tidskr. 73. 1952, 129—145.

Cameron, M., New Staphylinidae from the Belgian Congo. Rev. Zool., Bot. afr., Bruxelles, 46. 1952, 323—332.

Coiffait, H., Notes sur les Staphylinides. II., III. Rev. franç. Ent., Paris, 19. 1952, 5—16.

Day, F. H., Records of Staphylinus spp. Ent. Rec., J. Variation 64. 1952, 187—188.

Elateridae

Allen, A. A., The flight-period, etc. of Athous villosus Fourc. (Col., Elateridae). Ent.'s mon. Mag., London, 88. 1952, 212.

Bassoles de Barrera, I., Notas sobre larvas de coleopteros. I. Elateridae, su importancia y metodos de control. Fitofilo, San Jacinto (México), 6. 1952, nr. 5, p. 26—32.

Bonnemaison, L., Essais de traitements du sol et des semences contre les larves de taupins. Compt. rend. Acad. Agric. France 38. 1952, 164—167.

D'Aguilar, J., L'activité cinesthesique des imagos de certains Agriotes (Col. Elateridae). Trans. IXth int. Congr. Ent., Amsterdam, 1 (1951). 1952, 465—471, 3 fig.

Granovsky, A. A., How to control wireworms. Minnesota Univ. agric. Ext. Folder 170. 1952, 6 p.

Jeuniaux, Ch., Influence du facteur humidité sur la distribution des élatérides en Belgique (coléoptères). Trans. IXth int. Congr. Ent., Amsterdam, 1 (1951). 1952, 553—558.

Kitzler, K., Die Bekämpfung der Engerlinge [Melolontha] und Drahtwürmer [Elateridae]! Landwirtschaft, Wien, 21/22. 1952, 323—324.

Mitterer, J., Wurzelbrand und Drahtwurm. Dtsch. landw. Presse 75. 1952, 203.

Olesen, J., (Control of larvae of snapping beetles [Elateridae] through treatment of seed with hexachloride.) Dansk Landbrug, Aarhus, 71. 1952, 144—145.

Peeters, F. J., (Wireworm damage in our gardens.) Cult. en Handel 18. 1952, 281—282.

Remedi, A. L., El gusano alambre. [Monocrepidius spp.] Almanaque Minist. Agric., Ganad., Buenos Aires, 26/27. 1951/1952, 149—150.

Roche, W., The wireworm: the control of a crop pest. Beet Grower, Dublin, 6. 1952, 99—102.

Sakurai, K., (On the wireworms of the genus Agriotes Esch. (Col., Elateridae) in Hokkaido and Saghalien, with special reference to Agriotes obscurus Linné.) Hokkaido nat. agric. Exp. Stat. Res. Bull. 63. 1952, 108—112.

Schaerffenberg, B., Ursachen der Atemgift- und CO_2-Resistenz von Drahtwürmern und Maikäferengerlingen. Anz. Schädl.kunde 25. 1952, 59—60, 4 Abb.

Tunblad, B., Ett lyckat bekämpningsförsök mot knäppare. [Agriotes] Växtskyddsnotiser, Stockholm, 16. 1952, 29.

Zur Bekämpfung der Engerlinge und **Drahtwürmer.** Schweiz. Ztschr. Obst-, Weinbau 61. 1952, 124—125.

Buprestidae

Cazier, M. A., Additions to the buprestid fauna of the Bahama Islands, British West Indies (Coleoptera, Buprestidae). Amer. Mus. Novit., New York, 1562. 1952, 10.

Cobos, A., Materiales para el catálogo de los Buprestidae (Ins. coleópteros) de España: especies recogidas en La Sagra (Provincia de Granada), en 1949—1950. Bol, Soc. españ. Hist. natural, Secc. Biol., 50. 1952, 51—68.

Erkılıç, S., Sümer, S., Eskişehir'de Yeni bir zararlı böcek (Sphenoptera carceli E. ve G.). (A new insect pest for Turkey (Sphenoptera carceli E.-G.).) Bitki Koruma Bülteni (Bull. Plant Prot.), Ankara, 1952, nr. 2, p. 27—29, 3 fig.

Helfer, J. R., A new synonym in Xenorhipis (Coleoptera: Buprestidae). Pan-Pacific Ent. 28. 1952, 202.

Knull, J. N., New species of North American Buprestidae (Coleoptera). [new species in Acmaeodera, Melanophila, Chrysobothris, and Agrilus] Ohio J. Sci. 52. 1952, 349—352.

Sidor, Č., (Root chewer.) [Capnodis tenebrionis, Perotis lugubris] Vojvodanski Poljoprivrednik 8. 1952, nr. 8/9, p. 18—19.

Wellenstein, G., Der Buchenprachtkäfer (Agrilus viridis). Landw. Wochenbl. Westf., Lippe 190 A. 1952, 288.

Dermestidae

Howe, R. W., A note on the egg output of Attagenus megatoma (F.) (= Piceus (Ol.)) (Col., Dermestidae). Ent.'s mon. Mag., London, 88. 1952, 40—41.

Kalik, V., New and interesting species of Dermestidae (Coleoptera). Pan-Pacific Ent. 28. 1952, 43—49.

Lamb, K. P., Note on the survival without food of Australian carpet beetle larvae (Anthrenocerus australis (Hope) (Coleoptera: Dermestidae). New Zealand J. Sci., Technol. (Sect. B) 34. 1952, 67—68.

Zinkernagel, R., Remarks on Attagenus species. Trans. IXth int. Congr. Ent., Amsterdam, 1 (1951). 1952, 844—848, 4 fig.

Nitidulidae

Dobson, R. M., A new species of Carpophilus Stephens (Col., Nitidulidae) from Australia. Ent.'s mon. Mag., London, 88. 1952, 256—258.

Easton, A. M., Meligethes brisouti Reitter occurring in France and Morocco (Col. Nitidulidae). Rev. franç. Ent., Paris, 19. 1952, 217—220.

Gillogly, L. R. A., A new species of nitidulid beetle from Chile (Coleoptera). Pan-Pacific Ent. 28. 1952, 40—42.

Coccionellidae

Puttarudraiah, M., Channabasavanna, G. P., and **Murti, B. K.,** Discovery of Cryptolaemus montrouzieri Mulsant (Coccinellidae, Coleoptera, Insecta) in Bangalore, South India. Nature, London, 169. 1952, 377—378.

Lyctidae, Bostrychidae

Villiers, A., Mission A. Villiers au Togo et au Dahomey (1950). XIII. Coléoptères, lyctides et bostrychides. Bull. Inst. franc. Afr. noire, Paris, 14. 1952, 485—488.

Anobiidae, Meloidae, Alleculidae

Dillon, L. S., The Meloidae (Coleoptera) of Texas. Amer. Midland Naturalist 48. 1952, 330—420.

Durkić, J., Prilog poznavanju bionomije i mere borbe protiv crvene ražene bube. (Contribution à la connaissance de la biologie et des mesures de lutte contre Omophlus lepturoides F.) Saschtita Bilja (Plant Prot.), Beograd, nr. 12. 1952, 3—17, 6 fig.

Hussey, N. W., A braconid (Hym.) parasite of Ochina ptinoides Marsh. (Col., Anobiidae). Ent.'s mon. Mag., London, 88. 1952, 201.

Linsley, E. G., and **MacSwain, J. W.,** Notes on the biology and host relationships of some species of Nemognatha (Coleoptera: Meloidae). Wasmann J. Biol., San Francisco, 10. 1952, 91—102.

Martinez, A., Notas sobre Meloidae, II. [includes one new species in Epicauta] An. Soc. cient. argent., Buenos Aires, 153. 1952, 254—258.

Selander, R. B., New species of Meloidae from Utah (Coleoptera). [in Zonitis and Epicauta] J. Kansas ent. Soc. 25. 1952, 130—132.

Tenebrionidae

Cooper, M. I., and **Fraenkel, G.,** Nutritive requirements of the smalleyed flour beetle, Palorus ratzeburgi Wissmann (Tenebrionidae, Coleoptera). Physiol. Zoöl., Chicago, 25. 1952, 20—28.

Español Coll, F., Mas tenebrionidos del Sahara español (Col.). [includes a new species in Nesotes] Eos, Madrid, 28. 1952, 71—76.

Green, J., A coccidian infecting Cylindronotus laevioctostriatus (Goeze) (Col., Tenebrionidae). Ent.'s mon. Mag., London, 88. 1952, 207—208.

Koch, C., The Tenebrionidae of southern Africa. VIII. Materials for a monographic study on Eurychorini. Bull. Soc. Fouad Ier Ent., Le Caire, 36. 1952, 1—125.

Smith, S. G., The cytology of some tenebrionoid beetles (Coleoptera). J. Morph. (and Physiol.), Philadelphia, 91. 1952, 325—363.

Smith, S. G., The evolution of heterochromatin in the genus Tribolium (Tenebrionidae: Coleoptera). Chromosoma 4. 1952, 585—610.

Williams, G. C., and **Brett, G. A.,** First record of Tribolium anaphe Hinton (Col., Tenebrionidae) in Great Britain. Ent.'s mon. Mag., London, 88. 1952, 19.

Scarabaeidae

Adams, J. A., and **Matthysse, J. G.,** The Japanese beetle (Popillia japonica). Cornell Univ. agric. Coll. Ext. Bull. 770. 1952, 14 p.

Balazuc, J., et **Variot, R. P.,** Notes de tératologie. II. Monstruosité double chez un Goliath (Col. Scarabaeidae). Rev. franç. Ent., Paris, 19. 1952, 128—130.

Beckerich, A., Une offensive »hannetons« dans l'Aisne. [Melolontha] Rustica (France) 25. 1952, 515.

Beckham, C. M., and **Dupree, M.,** Attractants for the green June beetle with notes on seasonal occurrence. [Cotinis nitida] J. econ. Ent. 45. 1952, 736—737, 1 fig.

Bernuth, W. v., Vorbeugende Maßnahmen gegen Maikäferschäden. Mitt. dtsch. Landw.-Ges., Frankfurt/M., 67. 1952, 969—971, 7 Abb.

Bodinier, R. A., L'opération »hanneton« a vaincu même les préjugés. [Melolontha] Monit. Progr. agric, vitic. 5. 1952, nr. 211, p. 12.

Bombosch, S., Kann die Bekämpfung des Maikäfers mit chemischen Mitteln eine Engerlingsplage beseitigen? Trans. IXth int. Congr. Ent., Amsterdam, 1 (1951). 1952, 638—640.

Bombosch, S., Der Maikäfer, ganz kurz belichtet. Kosmos 48. 1952, 216—217.

Borchers, F., Bekämpfung der Maikäfer. Verl. Kommentator, GmbH., Frankfurt/M. 1952. 91 S.

Bourqui, P., Keller, Ch., et **Murbach, R.,** Echec au vers blanc! Communication de la Commission consultative romande de lutte contre le hanneton. Rev. rom. Agric., Vitic., Arboric. 8. 1952, 19—21, 2 fig. — Stat. Féd. Essais agric., Lausanne, Publ. nr. 14 (MC). 1952, 11 p., 2 fig.

Brammanis, L., Bidrag till kännedomen om för skogen skadliga bladhorningar i Sverige. I. Trädgårdsborren, Phyllopertha horticola L. Meddel. Stat. Skogsforskn.inst (Mitt. forstl. Forsch.anst.), Stockholm, 41. 1952, 59 p.

Butky, S. R., and **Gooden, E. L.,** Coxiella popilliae, n. sp., a rickettsia causing blue disease of Japanese beetle larvae. J. Bact., Baltimore, 63. 1952, 743—750, 10 fig.

Cazier, M. A., New West Indian Scarabaeidae and Cerambycidae (Coleoptera). Amer. Mus. Novit., New York, 1566. 1952, 4. p.

Clark, J. A., The Japanese beetle (Popillia japonica) in Indiana. Proc. Indiana Acad. Sci. 61. 1952, 145—147.

Clement, L., L'opération hanneton dans le department de l'Aisne en 1952. Culture, Paris, 39. 1952, 13—15.

Couturier, A., Caractère d'un foyer à Melolontha hippocastani F. en Côte-d'Or. Phytoma, Paris, 5. 1952, nr. 36, p. 18—19.

Couturier, A., Caractères des pullulations du hanneton commun (M. melolontha L.) dans l'est de la France. Trans. IXth int. Congr. Ent., Amsterdam, 1 (1951). 1952, 627—630.

Couturier, A., et Robert, P., Observations préliminaires sur le déterminisme de l'orientation des vols crépusculaires du M. melolontha. Trans. IXth int. Congr. Ent., Amsterdam, 1 (1951). 1952, 641—645, 1 fig.

De Germond, D., La cétoine noire. [Cetonia morio] Rev. franç. Apic. 73 (ser. 3). 1952, 3—12.

Dolgova, A. E., (Benzene hexachloride for control of larvae of the Marble cockchafer (Melolontha).) Winod. i Winograd. USSR (Weinbereitung und Weinbau) 4. 1952, 45.

Engel, H., Die Maikäfer-Flugjahre in Baden. Nachr.bl. dtsch. Pfl.schutzd., Braunschweig, 4. 1952, 121—123, 1 Landkarte.

Faber, W., und Schreier, O., Maikäfer-Bekämpfungsversuche 1951 in Österreich. Pflanzenschutzberichte, Wien, 8. 1952, 97—117, 2 Landkarten.

Ferreira, M. C., A new species of Scarabaeus. Ann. Transvaal Mus. 22. 1952, 74—77.

Fleming, W. E., and Maines, W. W., Effect of DDT and chlordane applied to control Japanese beetle (Popillia japonica) larvae on the yield of grass, rye, soybeans, and corn. US Bur. Ent., Plant Quar., Washington, E-839. 1952, 9 p.

Foltýn, J., (American beetle (Melolontha melolontha).) Socialist. Zeměd. (Cěscosl.) 2. 1952, 697—704.

Gallay, R., Le hanneton et le ver blanc. Nouveaux enseignements, nouveaux procédés de lutte. [Melolontha] Rev. rom. Agric., Vitic., Arboric. 8. 1952, 73—84, 14 fig.

Given, B. B., General report on a search for parasites of Melolonthinae in Australia. New Zealand J. Sci., Technol. (Sect. B) 34. 1952, 322—340, 6 fig.

Hadley, Ch. H., and Fleming, W. E., The Japanese beetle. US Dept. Agric. Yearb. Agric. 1952, 567—573.

Hammond, G. H., Residual values of certain insecticides against adults and larvae of Phyllophaga spp. (A progress report.) Sci. Agric., Ottawa, 32. 1952, 143—149.

Hawley, I. M., Milky diseases of beetles. [Bacillus popilliae] US Dept. Agric. Yearb. Agric. 1952, 394—401, 1 fig.

Hawley, I. M., The reaction of the introduced Japanese beetle to climatic conditions in the United States. Trans. IXth int. Congr. Ent., Amsterdam, 1 (1951). 1952, 647—655, 5 fig., 1 tab. geogr.

Hazeltine, W., Notes on flights and food plants of Pleocoma (Coleoptera: Scarabaeidae). Pan-Pacific Ent. 28. 1952, 202.

Janežič, F., (The cockchafer in Slovenia.) [Melolontha] Saschtita Bilja (Plant Prot.), Beograd, 1952, nr. 10, p. 40—41, 1 tab. geogr.

Karslıoğlu, S., Polatlı ve dolaylarında Anisoplia (Bambul) a karşı yapılan ılâç denemeleri ve alınan neticeler. (Experiments with insecticides against Anisoplia sp. in Polatlı and its vicinity and the results obtained.) Bitki Koruma Bült. (Bull. Plant Prot.), Ankara, 1952, nr. 4, p. 29—37.

Keller, E., Die Maikäferbekämpfungsaktion 1952 im Thurgau. Schweiz. landw. Ztschr. »Grüne« 80. 1952, 710—712.

Kern, W., Der Goldschmied, Carabus auratus L., ein Maikäferfeind. Urania, Wien, 15. 1952, 157—159.

Kitzler, K., Die Bekämpfung der Engerlinge [Melolontha] und Drahtwürmer [Elateridae]! Landwirtschaft, Wien, 21/22. 1952, 323—324.

Klett, Maikäferbekämpfung — jetzt im Herbst? Württemb. Wochenbl. Landw. 119. 1952, 874.

Kovačević, Ž., Neka opažanja o pojavljivanju običnog hrušta na području nr hrvatske. (Quelques renseignements sur le vol du hanneton en Croatie.) Saschtita Bilja (Plant Prot.), Beograd, 1952, nr. 12, p. 30—42.

Landa, V., Novák, K., a Skuhravý, V., Ú činky insekticidů DDT a HCH na imaga chroustů v laboratoři. (Der Einfluß der Insektizide DDT und HCH auf die Imaga der Maikäfer im Laboratorium.) Zool., ent. Listy (Folia zool., ent.), Brno (CSR), 1. 1952, 171—177.

Landa, V., Novák, K., and Skuhravý, V., (Experiments to control cockchafers [Melolontha melolontha] with DDT and BHC dusting.) Sborník ceskosl. Akad. Zeměd. (Ann. Acad. tchécosl. Agric.), Praha, 25. 1952, 415—418.

Lloyd, D. C., Biological observations on some thynnids of western Patagonia. [parasites of Scarabaeidae] Bull. ent. Res. 42. 1952, 707—719, 3 fig., 2 tab.

Ludwig, D., and Rothstein, F., Changes in the distribution of nitrogen during the embryonic development of the Japanese beetle (Popillia japonica Newman). Physiol. Zoöl., Chicago, 25. 1952, 263—268.

Malmus, N., Erfahrungen bei der Maikäferbekämpfung 1951 in Bayern. Mitt. Biol. Zentralanst. H. 74. 1952, 104—107.

Mathisen, M. C., Japanese beetle (Popillia japonica) preferences. Rose Ann. (Nat. Rose Soc.), Croydon, 37. 1952, 183—187.

Meinke, Engerlingsbekämpfung mit Hexa-Präparaten. Bad. landw. Wochenbl. 119. 1952, 246.

Mück, J., Engerlingsbekämpfung in Baumschulen. Zentralbl. dtsch. Erwerbsgartenbau 4. 1952, Nr. 14, S. 1.

Murbach, R., Keller, Ch., et **Bourqui, P.,** Échec au ver blanc! [Melolontha] Rev. rom. Agric., Vitic., Arboric. 8. 1952, 19—21, 2 fig.

Nakashima, T., (Ecological studies on Anomala-species (Scarabaeidae) in Hokkaido.) Res. Bull. Hokkaido Univ. Coll. Agric., Coll. Exp. Forests, Sapporo, 16. 1952, nr. 1, p. 115.

Pindur, W., Engerlingbekämpfung mit modernen Mitteln. Bauer 5. 1952, Nr. 36, S. 9—10.

Polivka, J. B., Control of the northern masked chafer with aldrin and dieldrin. [Cyclocephala borealis] J. econ. Ent. 45. 1952, 347—348.

Polivka, J. B., Field tests of insecticides for control of Japanese beetle larvae. J. econ. Ent. 45. 1952, 251—254.

Quidet, P., Operation hanneton. [Melolontha melolontha] Potasse (France) 26. 1952, 130—132.

Régnier, R., Enseignements a tirer des dernières opérations hannetons. Trans. IXth int. Congr. Ent., Amsterdam, 1 (1951). 1952, 631—637.

Régnier, R., Recherches sur les hannetons; évolution de la population larvaire en fonction des cultures et du climat. [Melolontha melolontha] Compt. rend. Acad. Agric. France 39. 1952, 448—453.

Reisinger, E., und **Schedl, K. E.,** Maikäferbekämpfung mit chemischen Mitteln in Kärnten. Pflanzenarzt, Wien, 5. 1952, Nr. 5, S. 5; Nr. 6, S. 4—6.

Richter, G., Beitrag zur Engerlingsbekämpfung mit chemischen Mitteln auf Kiefernkulturen und in Kämpen. Wald (Ztschr. Forstw.-Holzw.) 1952, 105.

Rothstein, F., Biochemical changes during the embryonic development of the Japanese beetle (Popillia japonica Newman). Physiol. Zoöl., Chicago, 25. 1952, 171—178.

Rui, D., (Infestations of May beetles (Rhizotrogus) in Venetia.) Inform. agric., Vicenza, 8. 1952, nr. 12, p. 4.

Ruter, G., Un cétonide crémastochilide nouveau du Sénégal (Col. Scarabaeidae). [Laurentiana n. g.] Bull. Soc. ent. France 57. 1952, 41—43.

Savary, A., Présence d'un important foyer de Melolontha hippocastani F. en Suisse romande. Mitt. schweiz. ent. Ges. 25. 1952, 268.

Schaerffenberg, B., Die Möglichkeiten einer Maikäferbekämpfung mit Hilfe von Mykosen. I. Beauveria densa Link, ein Hauptparasit von Melolontha sp. Anz. Schädl.kunde 25. 1952, 166—170, 4 Abb.

Schaerffenberg, B., Ursachen der Atemgift- und CO_2-Resistenz von Drahtwürmern und Maikäferengerlingen. Anz. Schädl.kunde 25. 1952, 59—60, 4 Abb.

Schljachanow and **Daragan,** (Utilization of benzene hexachloride in pine planting.) [against cockchafer larvae] Lesn. Khoz. 5. 1952, 79—81.

Schneider, F., Untersuchungen über die optische Orientierung der Maikäfer (Melolontha vulgaris F. und M. hippocastani F.) sowie über die Entstehung von Schwärmbahnen und Befallskonzentrationen. Mitt. schweiz. ent. Ges. 25. 1952, 269—340, 23 Abb., 2 Taf.

Schwerdtfeger, F., Weitere Untersuchungen zur Engerlingsbekämpfung mit Gamma-Mitteln auf der unbestockten Kulturfläche. Allg. Forstztschr. 7. 1952, 484—487, 489, 2 Abb.

Sidor, Ć., (The cockchafer in the region of Sremski Karlovci (Voyvodina).) [Melolontha] Saschtita Bilja (Plant Prot.), Beograd, nr. 10. 1952, 33—39.

Siegler, E. H., Residual toxicity of some organic insecticides to Japanese beetles. J. econ. Ent. 45. 1952, 449—451.

Spaić, I., (Control of the cockchafer larvae in nurseries.) [Melolontha] Saschtita Bilja (Plant Prot.), Beograd, nr. 10. 1952, 24—32.

Spreng, H., Maikäferbekämpfung 1951 in der Schweiz. Gesunde Pflanzen 4. 1952, 248—250, 2 Abb.

Stančić, J., (About some factors from which depend the limits of spread and the intensity of cockchafer attacks in Sandžak.) [Melolontha] Saschtita Bilja (Plant Prot.), Beograd, nr. 10. 1952, 9—23, 3 Kart.

Strojny, W., (Panorpa cummunis L. (Panorp., Panorpidae) — predator on Melolontha melolontha L. (Col. Scarab.).) Polskie Pismo ent. (Bull. ent. Pologne), Lwów, 21. 1952, 145—146.

Taubitz, Erfahrungen bei Grossaktionen gegen Maikäfer zur Verminderung von Engerlingsschäden. Ztschr. Zuckerind. 2. 1952, 196—197.

Tesar, Z., Neue orientalische Trichius-Arten (Col., Scarab.). Opusc. ent., Lund, 17. 1952, 59—61.

Thielmann, K., Zur Maikäferbekämpfung. Allg. Forstztschr. 7. 1952, 177—178.

Valenza, F., (Overhead irrigation and antiparasitic treatment with special reference to mountain areas and the control of the larvae of the white grub (Melolontha melolontha L.).) Atti Congr. Irrig. Pioggia Montagna 1. 1952, 311—318.

Vicini, L., (The »regime« of the wireworm.) [Melolontha melolontha] Inform. Fitopat., Bologna, 2. 1952, 159—160.

Vogel, W., Vergleichende Messungen an den Fühlern der Larven von Melolontha vulgaris F. und M. hippocastani F. Mitt. schweiz. ent. Ges. 25. 1952, 131—139, 5 Abb.

Walther, R., Warnung vor dem Blütenkäfer. [Tropinota hirta] Dtsch. landw. Presse 75. 1952, 32, 3 Abb

Warmbrunn, K., Neue Erkenntnisse über die Engerlingsbekämpfung auf Dauerwiesen auf Grund einer Großaktion in Nordwürttemberg im Frühjahr 1951. Mitt. Biol. Zentralanst. H. 74. 1952, 107—110.

Warmbrunn, K., Was ist im Februar gegen Engerlinge zu tun? Württemb. Wochenbl. Landw. 119. 1952, 96.

Weinhardt, G., Engerlingsbekämpfung in Baumschulen. Gartenwelt 52. 1952, 63—64, 1 Abb.

Wessel, R. D., and **Polivka, J. B.,** Soil pH in relation to Japanese beetle populations. J. econ. Ent. 45. 1952, 733—735.

Wille, H., und **Martignoni, M. E.,** Vorläufige Mitteilung über einen neuen Krankheitstypus beim Engerling von Melolontha vulgaris F. Schweiz. Ztschr. allg. Path., Bakt. 15. 1952, 470—474, 1 Abb.

Bekämpfung von Maikäferlarven (Engerlingen) durch D-D. Obst- u. Gartenbau, Stuttgart, 7. 1952, 169—170.

Zur Bekämpfung der **Engerlinge** und Drahtwürmer. Schweiz. Ztschr. Obst-, Weinbau 61. 1952, 124—125.

Kleine Räuber — Große Schäden. [Melolontha] Hannov. land-, forstw. Ztg. 105. 1952, 1012, 1 Abb.

Vom »Maikäferkrieg« im Landkreis Vilshofen. Landw. Wochenbl. München 142. 1952, 754, 2 Abb.

Lucanidae, Cerambycidae

Breuning, S., Quelques nouveaux Lamiaires (Coleoptera, Cerambycidae) du Riksmuseum. Ark. Zool., Uppsala, 1. 1951, 265—274.

Brüll, H., Über die Bedeutung der Mundwerkzeuge des männlichen und des weiblichen Hirschkäfers. Natur u. Volk 82. 1952, 289—294, 4 Abb.

Cazier, M. A., New West Indian Scarabaeidae and Cerambycidae (Coleoptera). Amer. Mus. Novit., New York, 1566. 1952, 4.

Fischer, H., Über die Bedeutung der Mundwerkzeuge des männlichen und des weiblichen Hirschkäfers. Natur u. Volk 82. 1952, 398—399, 2 Abb.

Giljarow, M. S., Litschinki grebentschatousych shukow jewropejskoj tschasti SSSR. (Die Larven der Hirschkäfer — Lucanidae — des europäischen Teils der UdSSR.) Zool. Žh. (Zool. J.) 31. 1952, 253—256.

Gressitt, J. L., Longicorn beetles from New Guinea and the South Pacific (Coleoptera: Cerambycidae). III. [includes new species in Pelargoderus, Cereopsius, Dihammus and Gnoma] Ann. ent. Soc. Amer. 45. 1952, 44—58.

Heyrovsky, L., Beitrag zur Kenntnis der Bockkäfer Asiens (Col., Ceramb.). 1. Über die Bockkäfer der Insel Taiwan (Formosa). [einschl. neuer Arten von Pseudoleptura] Országos Természettudo. Múz. Evkön. 2 (n. ser.). 1952, 71—73.

Heyrovsky, L., (Une contribution à la connaissance du Dorcadion fulvum Scop. (Cerambycidae).) Národ. Mus. Sborn. Ent. Oddělení, Praha, 26 (1948—50). 1952, nr. 372, p. 3.

Hunter, F. A., Collecting notes on cerambycid Coleoptera, 1952. Ent. Res., J. Variation 65. 1952, 60—63.

Kangas, E., Die Larve von Leptura maculicornis DeG. (Col., Cerambycidae). Suomen Hyönteistiet. Aikakausk. (Ann. ent. fenn.), Helsinki, 18. 1952, 75—80.

Lepesme, P., Coléoptères cérambycides récoltés au Soudan par G. Remaudière. Bull. Soc. ent. France 57. 1952, 38—41.

Pochon, H., Eine interessante Varietät von Clytus arietis L. (Col. Cerambycid.). Mitt. schweiz. ent. Ges. 24. 1951, 111, 1 Abb.

Van Emden, F. I., The larvae of Dendezia and Figulus, with notes on some other larvae of Lucanidae. Rev. Zool., Bot. afr., Bruxelles, 46. 1952, 301—310.

Chrysomelidae

Beccari, F., Osservazioni sulla biologia del Longitarsus Linnaei Duft. (Coleoptera, Chrysomelidae). Redia, Firenze, 37 (2. ser.). 1952, 309—326, 2 tab.

Daniels, L. B., Better flea beetle (Epitrix cucumeris) control is needed. Colorado Farm, Home Res. 3. 1952, nr. 2, p. 3.

David, P., Notes sur divers Chrysochloa français (Col. Chrysomelidae). Bull. Soc. ent. France 57. 1952, 109—110.

De Zayas, F., Nuevos crisomelidos de las subfamilias Cassidinae y Clytrinae. III. Contribución al conocimiento de los insectos de Cuba. [new species in Hemisphaerota, Stoiba and Cryptocephalus] Mem. Soc. cubana Hist. natural »Felipe Poey«, Habana, 21. 1952, 71—75.

Haget, A., Expériences de section longitudinale de la blastule de Leptinotarsa (insecte, Col.). Compt. rend. Soc. Biol., Paris, 146. 1952, 87—89.

Jolivet, P., Contribution à l'étude des coléoptères Chrysomeloidea de la région indo-australienne. Bull. Inst. R. Sci. naturelles Belg. 28. 1952, nr. 28, p. 4.

Jolivet, P., Notes biométriques sur quelques Chrysomeloidea (Coleoptera). Bull. Inst. R. Sci. naturelles Belg. 28. 1952, nr. 44, p. 8.

Jolivet, P., et **Theodorides, J.,** Les parasites, phorétiques et prédateurs des Chrysomeloidea (Coleoptera). 3. Bull. Inst. R. Sci. naturelles Belg. 28. 1952, nr. 20, p. 1—19.

Kliuschkin, P. A., (Effective method for destroying the larvae of leaf beetle (Lema melanopus).) Sowietsk. Agron., Moskwa, 10. 1952, nr. 5, p. 89—90.

Kocher, L., Notes sur les Timarcha marocaines (coléopt. chrysomélides) contribution à l'étude systématique du genre. Bull. Soc. Sci. naturelles Maroc, Rabat, 31. 1952, 313—332.

Moisejew, A. E., (Beetle-Luperus [pravei] and protection of wheatgrass seed plants.) Selektsiia i Semenovodstvo (Select. and Seed Growing), Moskwa, 19. 1952, nr. 2, p. 68—71.

Neilson, C. L., and **Finlayson, D. G.,** Notes on the biology of the tuber flea beetle, Epitrix tuberis Genter (Coleoptera: Chrysomelidae), in the interior of British Columbia. Canad. Entomologist. 85. 1952, 31—32.

Smith, O. J., The biology of Microctonus vittatae Muesebeck, a braconid parasite of adult flea beetles, with particular reference to Phyllotreta striolata (Fabricius). Ohio State Univ. Abstr. Doct. Diss. 63. 1952, 339—344.

Speyer, W., Die Verwandtschaft des Kartoffelkäfers. Naturwiss. Rundschau 5. 1952, 192—194.

Turian, G., Études sur la pigmentation chez une casside de l'Inula (II). Cassida murraea L., Col. Chrysomel.). Mitt. schweiz. ent. Ges. 25. 1952, 47—48.

Bruchidae, Platypodidae

Jover, H., Note préliminaire sur la biologie des Platypodidae de Basse-Côte d'Ivoire. Rev. Path. vég., Ent. agric. France 31. 1952, 73—81, 1 fig.

Kiyoku, M., (Relative humidity as a factor influencing the resistance of Callosobruchus chinensis to heat.) Botyu Kagaku (Sci. Insect Control) 17. 1952, 156—161.

Schmidt, H., Holzbohrkäfer (Bostrychidae). Holz als Roh-, Werkstoff 10. 1952, 449—450.

Vrydagh, J. M., Bostrychidae paléartiques: le genre Scobicia Lesne. Bull. (Ann.) Soc. ent. Belg., Bruxelles, 88. 1952, 58—59.

Zacher, F., Die Nährpflanzen der Samenkäfer. [Bruchidae] Ztschr. angew. Ent. 33. 1952, 210—217, 460—480.

Curculionidae

Allen, A. A., Two uncommon weevils in Kent. [Dorytomus, Otiorrhynchus] Ent. Rec., J. Variation 64. 1952, 30—31.

Balfour-Browne, J., Notes concerning the food-plants of Apion pubescens Kirby and Sibinia primita Herbst (Col., Curculionidae). Ent.'s mon. Mag., London, 88. 1952, 161.

Bernard, J., Découverte de galles de Gymnetron hispidum Brullé en Ardennes. Bull. (Ann.) Soc. ent. Belg., Bruxelles, 88. 1952, 225.

Bonnemaison, L., Méthods de lutte à appliquer contre le charançon des siliques (Ceuthorrhynchus assimilis Payk.). Compt. rend. Acad. Agric. France. 38. 1952, 759—764.

Bonnemaison, L., Obersvations preliminaires sur le charançon des siliques (Ceuthorrhynchus assimilis Payk.). Compt. rend. Acad. Agric. France. 38. 1952, 712—715.

Büch, C., Wichtiges über schädliche Rüsselkäfer. Saarländ. Bauernbl. 6. 1952, 57, 3 Abb.

Chorabik, S., Anatomy and histology of the digestive canal in the weevil Strophosomus capitatus Deg. (Coleoptera, Curculionidae). Polskie Pismo ent. (Bull. ent. Pologne), Lwów, 21. 1952, 1—29.

Fenili, G. A., Contributo alla conoscenza dell'Attelabus nitens Scop. (Coleoptera Curculionidae). Redia, Firenze, 37 (2. ser.). 1952, 195—282, 40 fig.

Fiedler, C., Neue Conotrachelus aus Südamerika (Col. Curc. Crytorrhynch.). (51. Beitrag zur Kenntnis der amerikan. Cryptorhynchiden). Ark. Zool., Uppsala, 3 (ser. 2). 1952, 1—17.

Fonseca, J. P., (Borers.) Lavoura e Criação, Rio de Janeiro, 7. 1952, nr. 45, p. 36—38.

Frediani, D., Contributo alla conoscenza del Rhynchites bacchus L. (Coleoptera — Curculionidae). Boll. Lab. Ent. Agr. »Filippo Silvestri«, Portici, 11. 1952, 109—148, 28 fig.

Gersdorf, E., Erfahrungen mit Tanymecus palliatus. Nachr.bl. dtsch. Pfl.schutzd., Braunschweig, 4. 1952, 39—40.

Gilbert, E. E., The homologies of the male genitalia of Rhynchophora and allied Coleoptera. Ann. ent. Soc. Amer. 45. 1952, 633—637.

Giulianelli, E., Contributo alla conoscenza del »Ceuthorrynchus picitarsis« Gyllh. Boll. Ist. Ent. Univ. Bologna 18. 1950—1951, 24—29, 3 fig.

Henderson, C. F., Hord, L. G., and **Millet, E. R.,** Reduction in white-fringed beetle injury by DDT treatments. J. econ. Ent. 45. 1952, 457—461, 1 fig.

Herrstrom, G., Relation between effect of BHC and vitality of Ceutorrhynchus assimilis Payk. Opusc. ent., Lund, 17. 1952, 113—116.

Hoffmann, A., À propos de Ceuthorrhynchus assimilis Payk. Rev. Path. vég., Ent. agric. France 31. 1952, 176—178.

Hoffmann, A., Curculionides inédits de Nord de l'Afrique. Bull. Soc. ent. France 57. 1952, 134—143.

Jeannel, R., Sur quelques psélaphides de Java. [Eupines, Anasidius n. g. Bryaxis, Batrisophyma, Tyraphus, Curculionellus] Ent. Ber., Amsterdam, 14. 1952, 138—143.

Nyholm, T., Zur Kenntnis der Curculionidenfauna Schwedens. 3. Die schwedischen Acalyptus-Arten. Ent. Tidskr. 73. 1952, 219—227.

Papp, C. S., Verzeichnis der von Dr. Carl Fiedler beschriebenen südamerikanischen Cryptorrhynchinen (Col. Curculionidae). I. II. 1. Beitrag zur Förderung der wissenschaftlichen Zusammenarbeit mit dem neugegründeten »International Hylean Amazon Institute« in Manaos, Brasilien. Ark. Zool., Uppsala, 1. 1951, 147—172, 457—518.

Roberts, R. A., White-fringed beetle. [Graphognathus] US Dept. Agric. Yearb. Agric. 1952, 608—611, 1 fig.

Roudier, A., Un Otiorrhynchus (Col. Curculionidae) nouveau pour la France dans les jardins de la banlieue parisienne. Bull. Soc. ent. France 57. 1952, 66—68.

Tuatay, N., Hypera postica Gyll. »Yonca hortumlu böceği«. Bitki Koruma Bült. (Bull. Plant Prot.), Ankara, 1952, nr. 4, p. 10—15, 3 fig.

Tuttle, D. M., Studies in the nionomics of Curculionidae. [food and host plants] Univ. Illinois Abstr. Thesis, Urbana 1952. 5 p.

Van Emden, F. I., On the taxonomy of Rhynchophora larvae: Adelognatha and Alophinae (Insecta: Coleoptera). Proc. zool. Soc. London 122. 1952, 651—795, 153 fig.

Vogt, E., Die Bekämpfung der Blattrandkäfer (Sitona-Arten) mit verschiedenen Stäubemitteln. Versuchsergebnisse aus dem Jahre 1951. Höfchen-Briefe, Leverkusen, 5. 1952, 89—92, 3 Abb.

Weiser, J., and **Rosický, B.,** Nosematosis of Otiorrhynchus ligustici. I—II. Věstnik českosl. zool. Společn. (Mém. Soc. zool. tchécosl.), Praha, 15. 1952, 209—234.

Rüsselkäfer als Schädlinge. Gesunde Pflanzen 4. 1952, 36—37, 6 Abb.

Scolytoidea

(Siehe auch — see also — voyez aussi p. 248.)

Blackburn, N. D., and **Stivers, J. O.,** Spittlebug (Cercopidae) spray treatments fail to control root borers. [Hylastinus obscurus] Pennsylv. agric. Exp. Stat. Bull. 540 (Suppl. 3). 1952, 7—8.

Francke-Grosmann, H., Über die Ambrosiazucht der beiden Kiefernborkenkäfer Myelophilus minor Htg. und Ips acuminatus Gyll. Meddel. Skogsforskn.inst. (Mitt. forstl. Forsch.anst.), Stockholm, 41. 1952, nr. 6, p. 1—52, 23 fig.

Jaeger, Kampf dem Borkenkäfer? Hannov. land-, forstw. Ztg. 105. 1952, 474.

Kurentsow, A. I., (Bark beetles and bare mountains.) Priroda, Moskwa, 41. 1952, nr. 5, p. 110—111.

Laurence, B. R., Unusual sexual behaviour of Sciara carbonaria Mg. Ent. Rec., J. Variation 64. 1952, 90.

Massey, C. L., Engelmann beetle. [Dendroctonus engelmanni] Amer. Forests 59. 1952, nr. 2, p. 31, 51.

Nosek, J., K biocenologii fauny kůrovců v beskydech. (Contribution à la biocoenologie de la faune d'ipides dans les beskydes.) Zool., ent. Listy (Folia zool., ent.), Brno (CSR), 1. 1952, 95—110, 7 fig., 2 tab. geogr.

Reich, H., Der Ungleiche Holzbohrer. [Xyleborus dispar] Mitt. Mitgl. Obstbauvers.ring Altes Land, Jork, 7. 1952, 87—89, 2 Abb.

Schedl, K. E., Neotropical Scolytoidea V. — 119. Contribution to the morphology and taxonomy of the Scolytoidea. Pan-Pacific Ent. 28. 1952, 122—124.

Schedl, K. E., Scolytoidea congolais. IV. Contribution 132 à la morphologie et à la systématique des Scolytoidea. Bull. Inst. R. Sci. naturelles Belg. 28. 1952, nr. 32, p. 12.

Schedl, K. E., Zur Synonymie der Borkenkäfer I. 121. Beitrag zur Morphologie und Systematik der Scolytoidea. Ent. Bl. 47—48. 1951—1952, 158—164.

Schvester, D., Premiers essais, en laboratoire, de formules insecticides contre le xylebore disparate: Xyleborus dispar F. (Col. Scolytidae). Ann. Épiphyties, Paris, 3. 1952, 1—9, 4 fig.

Lepidoptera

Alberti, B., Neue deutsche Fundorte von Malacosoma franconica Esp. (Lep. Lasiocampidae). Ent. Ztschr., Frankfurt, 62. 1952, 17—20.

Alberti, B., Nochmals über Malacosoma franconicum Esp. (Lep. Lasiocampidae). Ent. Ztschr., Frankfurt, 62. 1952, 127—128.

Amsel, H. G., Die Microlepidopteren der Brandt'schen Iran-Ausbeute. 2. u. 3. Teil. Ark. Zool., Uppsala, 1. 1951, 223—257, 84 fig., 525—563, 87 fig.

Amsel, H. G., Neue Kleinschmetterlinge aus Syrien. [Heterographis, Bostra, Rhipidoura n. g.] Bull. Soc. Fouad I^{er} Ent., Le Caire, 36. 1952, 127—134.

Amsel, H. G., Neue marokkanische Kleinschmetterlinge. Bull. Soc. Sci. naturelles Maroc, Rabat, 31. 1952, 65—74.

Arnold, J. W., The Haemocytes of the Mediterranean flour moth, Ephestia kühniella Zell. (Lepidoptera: Pyralidae). Canad. J. Zool. 30. 1952, 352—364, 3 tab.

Aubert, J. F., Note sur les formes mélanisantes des Papilionides centrale. Rev. franç. Lépidopt, Paris, 13. 1952, 236—239.

Baillod, M., La fausse teigne. [Galleria mellonella] J. suisse Apicult. 49. 1952, 151—153.

Benander, P., Elf für Schweden neue Kleinschmetterlinge (Lep.). Opusc. ent., Lund, 17. 1952, 63—64.

Benkewitsch, W. I., (Places inhabited by large numbers of ovipositors of the old silkworm.) [Porthetria dispar] Les i Step 4. 1952, nr. 12, p. 75—76.

Beran, F., Der Weiße Bärenspinner. Beobachtungen in Österreich. [Hyphantria cunea] Gesunde Pflanzen 4. 1952, 120—123, 4 Abb.

Bernardi, G., et De Lesse, H., La variabilité géographique de Lycaena helle Denis et Schiff. (Lep. Lycaenidae). Rev. franç. Lepidopt., Paris, 13. 1952, 203—214.

Bickerstaff, F., Odd notes on Sussex Lepidoptera, 1950—1951. Ent. Gaz. 3. 1952, 75—76.

Birchler, A., Schmetterlings-Fauna der Linthebene 3. Fortsetzung: Ergebnisse 1946—1951. Mitt. schweiz. ent. Ges. 24. 1951, 197—199.

Blair, K. G., Lithophane (Grapholitha) lapidae Huebner in Britain. Entomologist, London, 85. 1952, 123—124.

Block Wasser, H., Demonstration of a new insect virus not associated with inclusion bodies. J. Bact., Baltimore, 64. 1952, 787—792, 1 fig.

Böhm, H., und **Pschorn-Walcher, H.,** Biologie und Bekämpfung von Hyphantria cunea Drury (Lepidopt., Arctiidae — Weißer Bärenspinner). Pflanzenschutzberichte, Wien, 9. 1952, 105—150, 15 Abb.

Böhm, H., und **Pschorn-Walcher, H.,** Der Weiße Bärenspinner im Jahre 1952. [Hyphantria cunea] Pflanzenarzt, Wien, 5. 1952, Nr. 12, S. 3—5, 3 Abb.

Bogavac, M., (Liste des plantes-hôtes de Hyphantria cunea Dr. constatee jusqu'à present en Yougoslavie.) Plant Prot., Beograd, nr. 9. 1952, 90—92.

Bollow, H., Das Auftreten der Gespinste fertigenden Schmetterlingsraupen im Jahre 1952 in Bayern. Pflanzenschutz, München, 4. 1952, 89—90, 2 Abb.

Boursin, Ch., Eine neue Agrotis aus Nord-Persien, Agrotis psammocharis n. sp. (Beiträge zur Kenntnis der Agrotidae-Trifinae. XLVI. Ark. Zool., Uppsala, 1. 1951, 355—356, 1 tab.

Bradley, J. D., Coleophora gotlandica Benander, 1939 a synonym of C. teidensis Walsingham 1908. Ent. Gaz. 3. 1952, 185—192.

Brandt, H., Schmetterlinge (Lepidoptera). II. Naturwiss. Grundbegr. landbaul. Praxis, München, Zool. Reihe Nr. 28. 1952, 8 S., 9 Abb.

Breny, R., et Bollaerts, D., Pediculoides ventricosus Newport: Un acarien prédateur polyphage. [Tineola biselliella] Bull. Inst. agron., Stat. Rech. Gembloux 20. 1952, 23—32, 8 fig.

Brooks, M., Starlings, Sturnus vulgaris, eating monarch butterflies (Danais plexippus). Auk, Cambridge (Massachus.), 69. 1952, 89.

Bückmann, D., Die Umfärbung von Schmetterlingsraupen vor der Verpuppung (Untersuchungen an Cerura vinula). Naturwissenschaften 39. 1952, 213—214.

Burmann, K., Aus dem Leben eines hochalpinen Kleinfalters, Plutella geniatella Z. (Plutellidae). Ztschr. Lepidopt., Krefeld, 2. 1952, 73—75.

Burmann, K., Spinnennetze und Bergseen als Fundgruben für den Lepidopterensammler. Ztschr. Wiener ent. Ges. 37. 1952, 10—14.

Burmann, K. B., Wanderfalter auf Gletschern. Ztschr. Wiener ent. Ges. 37. 1952, 101—103.

Burrau, N., (Ein für die schwedische Fauna neuer Zünsler, Pyrausta turbidalis Tr.). Opusc. ent., Lund, 17. 1952, 61.

Burton, P. J., Communication between insects. [Lepidoptera] Trans. Suffolk Naturalists' Soc., Norwich, 8. 1952, 37—38.

Casey, J., Pale empress of the night. [Actias luna] Pennsylv. Angler 21. 1952, nr. 11, p. 14—17.

Chalmers-Hunt, J., Orthosia gracilis Schiff. var. rufescens Ckll. in Kent. Entomologist, London, 85. 1952, 261.

Chermock, R. L., The use of bait to attract butterflies. Lepidopterists' News, Cambridge (Mass.), 6. 1952, 32—33.

Chevallier, L. H. S., Lampides boeticus Linn. in Surrey. Ent. Rec., J. Variation 64. 1952, 274—277.

Chiarelli de Gahan, A., El bicho quemador. [Hylesia nigricans] Almanaque Minist. Agric., Ganad., Buenos Aires, 26/27. 1951/1952, 139—142.

Clarke, C. A., Hand pairing of Papilio machaon in February. Ent. Rec., J. Variation 64. 1952, 98—100.

Clarke, J. F. G., A new carpenterworm (Prionoxystus baccharidis) from Florida (Lepidoptera: Cossidae). J. Washington Acad. Sci. 42. 1952, 156—158.

Cockayne, E. A., Aberrations of Arctia villica Linnaeus. Ent. Rec., J. Variation 64. 1952, 301—302.

Cockayne, E. A., The genetics of Arctia villica Linnaeus ab. ursula Schultz and ab. kettlewelli Cockayne. Ent. Rec., J. Variation 64. 1952, 303—305.

Cockayne, E. A., A note on Hymenia recurvalis Fabricius. Ent. Rec., J. Variation 64. 1952, 71—72.

Cockayne, E. A., The problem of Lasiocampa quercus Linnaeus ab. olivaceo-fasciata Cockerell ab. olivacea Tutt and the melanic larva. Ent. Rec., J. Variation 64. 1952, 306—309.

Colamaria, F., (New attacks of Noctuidae.) Agric. ferrar., Ferrara, 56. 1952, 175—176.

Colamaria, F., (Noctuid of sown crops (Agrotis segetum).) Agric. ferrar., Ferrara, 56. 1952, 43—46.

Cooke, R. J., Battle of the budworm (Choristoneura fumiferana). [spraying by aircraft in Canada] Forest and Outdoors (Ontario) 48. 1952, nr. 9, p. 14—15, 26.

Corliss, J. M., The gypsy moth. US Dept. Agric. Yearb. Agric. 1952, 694—698, 1 fig.

Crowell, H. H., Controlling cutworms and spotted cucumber beetle (Diabrotica) larvae. Proc. Oregon State hortic. Soc. 67. 1952, 129—130.

Da Costa Lima, A., (On two Microlepidoptera (Tortricoidea, Grapholithidae).) Mem. Inst. Oswaldo Cruz 50. 1952, 249—257.

Da Costa Lima, A., (Sac-shaped butterfly cocon.) Chacaras e Quintaes, São Paulo, 85. 1952, 745—746.

Da Fonseca, J. P., (Dangerous caterpillars invade crops.) [Mocis repanda, Laphygma frugiperda] Rev. Soc. rur. brasil., São Paulo, 32. 1952, nr. 376, p. 37.

De Lattin, G., Studien über die Gattung Crambus F. Ent. Ztschr., Frankfurt, 62. 1952, 89—91.

De Lattin, G., Über das Entfetten von Schmetterlingen. Ent. Ztschr., Frankfurt, 62. 1952, 60—62.

Diakonoff, A., Entomological results from the Swedish expedition 1934 to Burma and British India. Lepidoptera. Collected by R. Malaise. Microlepidoptera I. Ark. Zool., Uppsala, 3. 1952, 59—94, 35 fig., 1 tab. geogr.

Diakonoff, A., Microlepidoptera. I. [includes new species in Homona, Isodemis n. g., Mimeoclysia] Verh. naturforsch. Ges. Basel 63. 1952, 137—152.

Drachovská, M., Výskyt makadlenky řepné (Phthorimaea ocellatella Boyd.) na Slovensku. Zool., ent. Listy (Folia zool., ent.), Brno (CSR), 1. 1952, 223—229, 1 tab. col.

Dumbleton, L. J., A new genus (Agathiphaga) of seed-infesting micropterygid moths. Pacific Sci., Honolulu, 6. 1952, 17—29.

Dupree, M., and **Beckham, C. M.,** Insecticides for control of pickleworm (Diaphania nitidalis). Proc. Assoc. south. agric. Workers 49. 1952, 84.

Easterling, C. E., Pupation period of Smerinthus ocellata. Entomologist, London, 85. 1952, 124.

Edelsten, H. M., Corrections in Allan's Larval foodplants. Ent. Rec., J. Variation 64. 1952, 259.

Ernst, R., Für Österreich neu! [Grammodes stolida] Ztschr. Wiener ent. Ges. 36. 1952, 130.

Faldini, J. D., y **Pastrana, J. A.,** »Bacillus thuringiensis« como agente entomofago de »Colias lesbia«. Rev. argent. Agron. 19. 1952, 154—165.

Fischer, E., Versuche zur Aktivierung letaler Keimkombinationen. [Celerio] Viertelj.schr. naturforsch. Ges. Zürich. 97. 1952, 29—38.

Foltin, H., Die Bildung und das Vorkommen nigristischer bzw. melanistischer Formen in Oberösterreich. [Lepidopteren] Ztschr. Wiener ent. Ges. 37. 1952, 89—95.

Ford, E. B., Polymorphism and taxonomy. [Triphaena] R. Soc. New Zealand Sci. Congr. Rept. 7. 1952, 245—253.

Forsslund, K. H., (Leucoptera sinuella.) Skogen, Stockholm, 39. 1952, 67.

Franclemont, J. G., Four undescribed moths from eastern North America, with notes on closely related species (Lepidoptera, Phalaenidae olim Noctuidae). Bull. Brooklyn ent. Soc. 47. 1952, 123—137.

Franz, E., Sphingidae de El Salvador. (Resultados del viaje de exploracion Dr. Adolf Zilch 1951 en El Salvador, 2.) Comun. Inst. trop. Invest. cient. 4. 1952, 14—17.

Frickhinger, H. W., Ein Schädling droht aus dem Osten. [Hyphantria cunea] Wegweiser Obst-, Gartenbau Kleintierhof 7. 1952, 150.

Friedemann, H., Über die Lebensweise von Mamestra tincta Brahm und M. advena F. Ent. Ztschr., Frankfurt, 62. 1952, 20—21.

Furr, R. E., and **Calhoun, S. L.,** Toxicity of organic insecticides to the fall armyworm. [Laphygma frugiperda] Proc. Assoc. south. agric. Workers 49. 1952, 83. — J. econ. Ent. 45. 1952, 892.

Gentilucci, T., (Cacoecia rosana L. in Emili.) Boll. Ist. Ent. Univ. Bologna 18. 1952, 197—204, 5 fig.

Georgijevic, E., (Mulberry spinner (Hyphantria cunea Dr.).) Narod. Sumar (Yugoslavia) 6. 1952, 119—125.

Glass, E. H., and **Chapman, P. J.,** The red-banded leaf roller and its control. [Argyrotaenia velutinana] New York State agric. Exp. Stat. Geneva Bull. 755. 1952, 3—42.

Glass, E. H., and **Chapman, P. J.,** Redbanded leaf roller (Argyrotaenia velutinana) again. Farm Res. (New York State agric. Exp. Stat.) 18. 1952, 5.

Gómez Clemente, F., y **Del Rivero, J. M.,** La »rosquilla negra« (Prodenia litura F.). Bol. Pat. veg., Ent. agríc., Madrid, 19. 1951—52, 221—278, 12 fig.

Gorter, A. J., (Contribution to the knowledge of the butterflies of the Stichtse hill district.) Ent. Ber., Amsterdam, 14. 1952, 65—66.

Grabe, A., Capua reticulana Hb. (Tortricidae) an ausländischen Pflanzen. Ztschr. Lepidopt., Krefeld, 2. 1952, 44.

Granovsky, A. A., How to control cutworms. Minnesota Univ. Agric. Ext. Folder 171. 1952, 8 p.

Hadley jr., B. L., The spring canker-worm (Paleacrita vernata) defoliator of forest, orchard, and shade trees. Pennsylv. Forests, Waters 4. 1952, 32, 48.

Haine, E., Weitere Bekämpfungsversuche mit Euproctis chrysorrhoea L. und Diprion sertifer Geoffr. Anz. Schädl.kunde 25. 1952, 129—132.

Hammond, H. E., A list of previously unrecorded foodplants of lepidopterous larvae, with additional notes on preference etc. Ent. Gaz. 2. 1952, 59—68.

Hamner, L. V., Spiney yucca and pronuba moth [Tegeticula yuccasella] forever bound in seasonal desert partnership. West. Live Stock 38. 1952, nr. 3, p. 22, 159.

Hartweig, F., Zwei neue Formen von Myelois cribrella Hbn. (Pyralidae, Phycitinae). Ztschr. Lepidopt., Krefeld, 2. 1952, 104.

Harz, K., Vom Höhenflug der Wanderfalter. Ent. Ztschr., Frankfurt, 62. 1952, 120.

Harz, K., Wanderschmetterlinge und ihre Erforschung. Natur u. Volk 82. 1952, 236—237.

Hase, A., Über die Lebensweise des Bärenspinners Hyphantria cunea und über seine Einbürgerung und rasche Ausbreitung in Europa. Nachr.bl. dtsch. Pfl.schutzd., Braunschweig, 4. 1952, 82—85, 2 Landkarten.

Henson, W. R., and **Sheperd, R. F.,** The effects of radiation on the habitat temperatures of the lodgepole needle miner, Recurvaria milleri Busck (Gelechiidae: Lepidoptera). Canad. J. Zool. 30. 1952, 144—153, 1 fig.

Hesselbarth, G., Bemerkungen zu Pieridenzuchten 1950—1951. Trans. IXth int. Congr. Ent., Amsterdam, 1 (1951). 1952, 172—176, 8 fig.

Hinton, H. E., The structure of the larval prolegs of the Lepidoptera and their value in the classification of the major groups. Lepidopterists' News, Cambridge (Mass.), 6. 1952, 1—6.

Höhnel, W., Ist die Wachsmotte [Galleria mellonella] nur als Schädling zu bewerten? Dtsch. Bienenztg. 7. 1952, 184—186.

Holik, O., Die Nahrungspflanzen der Zygaenenraupen und ihre Bedeutung für die Unterteilung der Gattung Zygaena Fabr. Ent. Ztschr., Frankfurt, 62. 1952, 142—144.

Huggins, H. C., Notes on Microlepidoptera. Ent. Rec., J. Variation 64. 1952, 177—178.

Ibragimov, R. P., (On the control of the wax moth.) Pchelovodstvo (USSR) 29. 1952, nr. 2, p. 44—45.

Iren, Z., (The native parasites of small ermine moth [Hyponomeuta padella] and codling moth [Carpocapsa pomonella] larvae in Ankara (Turkey).) Bitki Koruma Bült. (Bull. Plant Prot.), Ankara, 4. 1952, 16—18.

Issekutz, L., Parnassius apollo (L.) in the Carpathians. [on Sedum] Országos Természettudományi Múzeum Évkönyve (Ann. hist.-natur. Mus. nat. hung.), Budapest, 2 (n. ser.). 1952, 133—140, 2 tab.

Ito, M., (A consideration of the effective concentration of DDT and BHC emulsions for the arctiid moth, Diacrisia imparilis Butler.) Botyu Kagaku (Sci. Insect Control) 17. 1952, 88—93.

Jacobson, L. A., Effects of starvation on larvae of the pale western cutworm, Agrotis orthogonia Morr. (Lepidoptera: Phalaenidae). Canad. J. Zool. 30. 1952, 194—200.

Jacobson, L. A., McDonald, H., Lindsay, I. S., and **Blakeley, P. E.,** Preliminary investigations in chemical control of the pale western cutworm, Agrotis orthogonia Morr. (Lepidoptera: Phalaenidae). Sci. Agric., Ottawa, 32. 1952, 592—596.

Janmoulle, E., Espèces nouvelles pour la faune belge. [Philedone prodromana, Coleoptera glaucicolella, C. pallorella] Lambillionea, Bruxelles, 52. 1952, 13, 25—26.

Jefferson, R. N., and **Eads, C. O.,** Control of sod webworms in Southern California. [Crambus sperryellus, C. bonifatellus] J. econ. Ent. 45. 1952, 114—118.

Johnson, J. H., Abraxas sylvata Scop. in Derbyshire. Ent. Rec., J. Variation 64. 1952, 80—81.

Johnson, R. H., Tent caterpillar (Malacosoma disstria) menace. [infestation in Minnesota] Conserv. Volunteer 15. 1952, nr. 85, p. 15—20.

Judd, W. W., Cacoecia melaleucana Walker (Lepidoptera: Trotricidae) and its hymenopterous parasites reared from Trillium grandiflorum (Michx.) Salisb. Trans. amer. microscop. Soc., Lancaster (Pennsylv.), 71. 1952, 125—128.

Julliard, Ch., Le parasitisme des chrysalides de Vanessa urticae en Valais et au Saentis. Mitt. schweiz. ent. Ges. 25. 1952, 49—55.

Kasy, F., Vergleichende Untersuchungen über die Transpiration von Schmetterlingsgruppen verschiedener Ökologie und Entwicklungsweise bei hohem Sättigungsdefizit. Diss. Wien 1952. 175 S.

Kernbach, K., Einige Beobachtungen an Pergesa elpenor L. Ent. Ztschr., Frankfurt, 62. 1952, 133—136.

Kernbach, K., Eine neue Unterart von Protoparce diffissa Btlr. aus Bolivien (Sphingidae). Ztschr. Lepidopt., Krefeld, 2. 1952, 129—130.

Kernchen, S., Der Weiße Bärenspinner, ein neuer Großschädling. Mitt.bl. Landesverb. Gartenbau, Landw. Berlin 2. 1952, 143, 2 Abb.

Kershaw, S. H., Two new aberrations of Argynnis aglaia Linn. Ent. Rec., J. Variation 64. 1952, 69—70.

Kettlewell, H. B. D., Use of radioactive tracer in the study of insect populations (Lepidoptera). Nature, London, 170. 1952, 584—585.

Klimesch, J., Nepticula arbusculae spec. nov. (Lep., Nepticulidae). Ztschr. Wiener ent. Ges. 36 (1951). 1952, 149—152.

Klimesch, J., Über eine neue Scythris-Art aus den Nordost-Alpen (Scythris saxicola sp. n.; Lep., Scythridae). Ztschr. Wiener ent. Ges. 36 (1951). 1952, 141—144.

Klostermeyer, E. C., Control of red-backed cutworm with toxaphane and methoxychlor dusts. [Euxoa ochrogaster] J. econ. Ent. 45. 1952, 539.

Koyama, Y., (Application of folidol to cutworm.) J. Plant Prot., Tokyo, 37/38. 1952, 316—319.

Krogerus, H., The changes in the Lepidoptera fauna of a district in South Finland. Fennia, Helsingfors, 75. 1952, 58—59.

Kruminš, R., Die Borstenentwicklung bei der Wachsmotte Galleria mellonella L. Biol. Zentralbl. 71. 1952, 183—210, 13 Abb.

Kurir, A., Vergrößerung der Zahl der Raupenstadien und Verlängerung des Raupenlebens durch die Nahrung. Bodenkultur, Wien, 6. 1952, 355—382, 17 Abb.

Kusnezow, W. I., (Problems in adaptation of lepidopterous insects to new food conditions.) Trudy Akad. Nauk SSSR zool. Inst. 11. 1952, 166—181.

Lanktree, D., On the possibility of an attitude adopted by larvae of the brimstone butterfly (Gonepteryx rhamni L.) being one of defence. Ent. Rec., J. Variation 64. 1952, 78—80.

Lederer, G., Bemerkungen über den Webbär (Hyphantria cunea Drury, H. textor Harr.), ein eingeschleppter Schädling aus USA (Lep. Arctiidae). Ent. Ztschr., Frankfurt, 61. 1952, 191—192.

Lees, F. H., Hymenia recurvalis Fabricius in Britain. Ent. Rec., J. Variation 64. 1952, 70—71.

Lomakina, M. I., and **Medwedewa, W. I.,** (American white butterfly.) [Hyphantria cunea] Sad i Ogorod (Orchard and Garden) 10. 1952, 76.

Loritz, J., Sur des femelles microptères de Thaumatopoea pityocampa Schiffm. (Lepidoptera) obtenues en élevage. Trans. IXth int. Congr. Ent., Amsterdam, 1 (1951). 1952, 241—245, 2 fig.

Mack, W., Über die Variabilität der Rhyacia subrosea Steph. ssp. kieferi Rbl. aus dem steirischen Ennstale. Ztschr. Wiener ent. Ges. 36 (1951). 1952, 161—163.

Marion, H., Ébauche d'une classification nouvelle des Pyraustidae. Rev. franç. Lépidopt., Paris, 13. 1952, 260—269.

Martyn, E. J., Insecticidal control of the corbie Oncopera intricata Walker (Lepidoptera family Hepialidae). Tasmanian J. Agric. 23. 1952, 200—211.

Masochin-Porschnjakow, G. A., (Versuch eines ökologischen Systems der Tagschmetterlinge (Lepidoptera, Rhopalocera).) Zool. Žh. (Zool. J.) 31. 1952, 202—212.

Matthee, J. J., The occurrence of the army worm (Laphygma exempta (Walk)) in and around Pretoria. J. ent. Soc. South. Afr. 15. 1952, 122—128.

Mayer, K., Der Weiße Bärenspinner, ein neuer Großschädling von internationaler Bedeutung. [Hyphantria cunea] Dtsch. Landw. 3. 1952, 627—629, 3 Abb.

Michaelis, H. N., Further notes on Microlepidoptera from Lancashire and Cheshire, 1951. Ent. Rec., J. Variation 64. 1952, 178—179.

Michener, C. D., The Saturniidae (Lepidoptera) of the Western Hemisphere, morphology, phylogeny and classification. [includes new species in Psilopygida and Hylesia] Bull. amer. Mus. natural Hist., New York, 98. 1952, 339—501.

Milosavljević, R., Hyphantria cunea Dru. — un problème très important pour notre économie. Forestry, Soc. Foresters R. P. Serbia, 5. 1952, H. 1, p. 39—50.

Milum, V. G., The control of wax moth. Amer. Bee J. 92. 1952, 293—295.

Morley, A. M., A moth-trap in Folkestone in 1951. Ent. Rec., J. Variation 64. 1952, 170—172.

Muhr, O., Hyphantria cunea (H. textor), eine amerikanische Arctiide, im östlichen Niederösterreich und bei Wien. Ent. Ztschr., Frankfurt, 61. 1952, 190—191.

Muspratt, V. M., Demande de renseignements sur Vanessa cardui en France, en février et mars 1952. Entomologiste, Paris, 8. 1952, 45.

Newman, L. H., Why moth fly into the light. Country Life, London, 112. 1952, 1729.

Nizamlïoğlu, K., Malacosoma castrensis. Tomurcuk, Istanbul, 1952, nr. 1, p. 12—13.

Nizamlïoğlu, K., Malacosoma castrensis ile Malacosoma neustria arasïndaki fark ve benzerlikler. (Unterschiede und Ähnlichkeiten zwischen M. c. und M. n.) Tomurcuk, Istanbul, 1952, nr. 2, p. 8.

Nizamlïoğlu, K., Malacosoma neustria, yüzük kelebeği. (M. n., der Ringschmetterling.) Tomurcuk, Istanbul, 1952, nr. 3, p. 14—15.

Nizamlïoğlu, K., Yeni bir epidemi sebebi. (Eine neue Ursache für eine Epidemie.) [Agrotis von Hochwasser verschleppt] Tomurcuk, Istanbul, 1952, nr. 1, p. 5.

Nizamlïoğlu, K., ve **Çakïllar, M.,** Heliothis obsoleta F. (yeşilkurd) memleketimizde 6 gömlek degiştirebilmektedir. (Heliothis obsoleta F. kann sich in unserem Lande 6mal häuten.) Tomurcuk, Istanbul, 1952, nr. 7, p. 12.

Nonveiller, G., Hyphantria cunea Drury. Ein neues europäisches Pflanzenschutzproblem. Gesunde Pflanzen 4. 1952, 117—120, 3 Abb.

Nonveiller, G., Hyphantria cunea Drury, un nouveau probleme d'importance internationale en Europe. Trans. IXth int. Congr. Ent., Amsterdam, 1 (1951). 1952, 669—671.

Nordman, A. F., The significance for insects of climatic changes. [butterflies] Fennia, Helsingfors, 75. 1952, 60—68.

Novikoff, P., Battling the budworm (Choristoneura fumiferana). Canada Lumberman 72. 1952, nr. 7, p. 40—41.

Ostrowskij, N. I., (Effect of organic-synthetic poisons on Phytometra gamma caterpillars.) Sowietsk. Agron., Moskwa, 10. 1952, nr. 12, p. 80—82.

Owen, D. F., Migrant Lepidoptera on the Kirkcutbright Coast. Scot. Naturalist, Edinburgh, 64. 1952, 167.

Pauck, Erdraupen bekämpfen! [Agrotis segetum] Landw. Wochenbl. Westf., Lippe 109 A. 1952, 1210—1211.

Pawlow, I. F., (Stalk borer and measures for its control.) Selektsiia i Semenovodstvo (Select. and Seed Growing), Moskwa, 19. 1952, nr. 10, p. 70—73.

Peeters, F. J., (The poplar goat moth (Cossus cossus).) Cult. en Handel 18. 1952, 221—223.

Petersen, B., The relations between Pieris napi L. and Pieris bryoniae Ochs. Trans. IXth int. Congr. Ent., Amsterdam, 1 (1951). 1952, 83—87, 2 fig.

Petersen, B., Törnblom, O., und **Bodin, N.-O.,** Verhaltensstudien am Rapsweißling und Bergweißling (Pieris napi L., Pieris bryoniae Ochs). Behaviour, Leiden, 4. 1952, 67—84.

Petrik, A., and **Jovanić, M.,** (Contribution to the knowledge of Noctuidae in Voyvodina.) Proc. Matica Srpska (ser. natural Sci.), Novi Sad, 3. 1952, 119—132.

Petrik, C., (Observations on the appearance of Nygmia phaeorrhoea Don. in Voyvodina.) Saschtita Bilja (Plant Prot.), Beograd, nr. 10. 1952, 49—52.

Picco, D., (Chemical control against Thaumetopoea pityocampa.) Not. Mal. Piante nr. 21. 1952, 1—8.

Price Gaviria, C., Notas preliminares sobre los insectos benéficos que afectan al Heliothis virescens F. Vida agríc., Lima (Perú), 29. 1952, 289, 291, 293, 295—296.

Principi, M. M., Sviluppo postembrionale ed etologia della »Lithocolletis platani« Stgr. (»Lepidoptera Gracilariidae«). Boll. Ist. Ent. Univ. Bologna 19. 1952, 171—250, 34 fig.

Provaglio, G., (Agrotis, bran, and insecticides.) Humus, Milano, 8. 1952, nr. 7/8, p. 23—24.

Pschorn-Walcher, H., Vor der 2. Generation des Weißen Bärenspinners (Hyphantria cunea). Pflanzenarzt, Wien, 5. 1952, Nr. 8, S. 1—2.

Rabaud, E., Notes sur le comportement de Cnethocampa (i. e. Thaumetopoea) pityocampa Schiff. (lépidoptères). Feuille Naturalistes, Paris, 7 (n. ser.). 1952, 38.

Real, P., Observations sur quelques formes de Cnephasia de la Collection Cleu. Rev. franç. Lepidopt., Paris, 13. 1952, 220—222.

Remington, C. L., The biology of Nearctic Lepidoptera. I. Foodplants and life-histories of Colorado Papilionoidea. Psyche, London, 59. 1952, 61—70.

Richardson, A., Lepidoptera from the Burren of Clare, W. Ireland. Ent. Gaz. 3. 1952, 73—74.

Rindge, F. H., The butterflies of the Bahama Islands, British West Indies (Lepidoptera). Amer. Mus. Novit., New York, 1563. 1952, 18.

Roepke, W., Lepidoptera Heterocera, gesammelt von Dr. F. Schneider in Sumatra. Mitt. schweiz. ent. Ges. 24. 1951, 377—400, 11 Abb.

Roesler, R., Über das Auftreten von Clysia ambiguella Hb. und Polychrosis botrana Schiff. an verschiedenen Nährpflanzen. Weinbau/Wiss. Beih. 6. 1952, 85—86, 3 Abb.

Rosenstiel, R. G., The omnivorous leat tier [Cnephasia longana] problem. Proc. Oregon State hortic. Soc. 67. 1952, 73—74.

Rowbotham, J. C., A successfull method of spraying against looper caterpillars [Chloroclystis lacticostata] and other springtime pests. J. Dept. Agric. west. Austr. 1 (ser. 3). 1952, 637—640.

Rui, D., (Need for control plant enemies: how Agrotidae (i. e. Phalaenidae) are controlled.) Agric. vicent., Vicenza, 83. 1952, nr. 10, p. 1—2.

Rui, D., and **Bellavite, F.,** (An enemy at the gate: Hyphantria cunea.) Inform. agric., Vicenza, 8. 1952, 25.

Rungs, C., Notes de lépidoptérologie marocaine. XVIII. Bull. Soc. Sci. naturelles Maroc, Rabat, 31. 1952, 75—92.

Russell, S. G. C., On Lycaena dispar Haworth. Ent. Rec., J. Variation 64. 1952, 315—317.

Salvaterra, G., Cacoecia rosana, L. Plant Prot. Overseas Rev., London, 3. 1952, 18—23.

Schätz, W., Eine interessante Beobachtung bei Acherontia atropus (L.). Ent. Ztschr., Frankfurt, 62. 1952, 72.

Schenk, P. J., (The browntail moth, Nygmia phaeorrhoea.) Groenten en Fruit 8. 1952, 278.

Schimitschek, E., Der Amerikanische Webebär, Hyphantria cunea Drury, in Österreich. Anz. Schädl.-kunde 25. 1952, 49—52, 14 Abb.

Schimitschek, E., Der Amerikanische Webebär, Hyphantria cunea, in Österreich. Mitt. forstl. Bundes-Vers.-anst. Mariabrunn 48. 1952, 9—29.

Schmaus, M., Über Agrotis (Opigena) polygona F. in Westdeutschland. Ztschr. Lepidopt., Krefeld, 2. 1952, 75—76.

Schoene, W. J., and **Sibold, N. V.,** A virus disease of the red-banded leaf roller. [Argyrotaenia velutinana] J. econ. Ent. 45. 1952, 1081.

Schuder, D. L., The bagworm (Thyridopteryx ephemeraeformis) in Indiana. Proc. Indiana Acad. Sci. 61. 1952, 159—164.

Schwingenschuss, L., Kleiner Beitrag zur Lepidopterenfauna von Herzogenburg und Umgebung. Ztschr. Wiener ent. Ges. 37. 1952, 84—88.

Sevastopulo, D. G., A note on Hymenia recurvalis Fab. Ent. Rec., J. Variation 64. 1952, 182.

Sinreich, A., Ein neuer Schädling. Der Amerikanische Webebär, Hyphantria cunea Drury. Österr. Vierteljschr. Forstwes. 93. 1952, 30—34, 4 Abb.

Skala, H., Einige Blattminen aus verschiedenen Kleinfalterfamilien. Ztschr. Wiener ent. Ges. 36 (1951). 1952, 182.

Skogsborg, J., (Notes on Microlepidoptera.) Opusc. ent., Lund, 17. 1952, 65—68.

Sperring, A. H., The chromosome number of Leucania favicolor Barret and L. pallens Linn. Ent. Rec., J. Variation 64. 1952, 257—258.

Stefanović, C., Protection of plants from the garden moth. Pchelar, Beograd, 50. 1952, 44—45.

Steinhaus, E. A., The susceptibility of two species of Colias to the same virus. J. econ. Ent. 45. 1952, 897—899.

Storace, L., Recherches sur le groupe africain de Papilio nireus L. Lambillionea, Bruxelles, 52. 1952, 14—20, 30—35, 75—76.

Symes, H., Variations in the life cycle of Lasiocampa quercus L. var. callunae Palmer. Ent. Rec., J. Variation 64. 1952, 258—259.

Szmidt, A., (A little-known moth Tmetocera laricana Hein. (Tmetocera ocellana F. v. lariciana Hein.).) Polskie Pismo ent. (Bull. ent. Pologne), Lwów, 21. 1952, 128—139.

Takiguchi, M., (Ecological notes of Euxoa segetum Schiff. in Fukuoka Prefecture. II. Note on the life history.) Kyushu Noji Shikenjo 9. 1952, 33—34.

Thompson, J. A., Nomenclature of the yellow forms of Pieris napi Linnaeus. A plea for reason. Ent. Rec., J. Variation 64. 1952, 75—78.

Tibbetts, T., and **Knowlton, G. F.,** Apterona crenulella in Utah (Lep.: Psychidae). Ent. News, Philadelphia, 63. 1952, 211.

Treutler, Die Ebereschen- oder Apfelmotte (Argyresthia conjugella Zell.). Dtsch. Gärtnerpost 1952, Nr. 34.

Urbahn, E., Wer hat den für Europa neuen Spanner Cabera leptographa Wehrli schon in Deutschland gefunden? (Lep. Geom.) Ent. Ztschr., Frankfurt, 62. 1952, 41—43.

Valletta, A., Vanessa cardui Linn. and other migrants in Malta in 1952. Ent. Rec., J. Variation 64. 1952, 279—280.

Vicente, S., Dermitis producidas por mariposas. [Hylesia] Acta Cient. venezol. 3. 1952, 88—90.

Wagener, P. S., Beitrag zur Lepidopterenfauna des Hohen Atlas in Marokko. Ent. Ztschr., Frankfurt, 62. 1952, 97—102, 2 Abb., 1 Landkarte.

Warnecke, G., Der Sanddorn (Hippophae rhamnodis) als Futterpflanze von Raupen. Ztschr. Lepidopt., Krefeld, 2. 1952, 48.

Warnecke, G., Die Verbreitung der Phytometra (Plusia) modesta Hb. (Lep. Noct.) in Deutschland. Ent. Ztschr., Frankfurt a/M., 62. 1952, 57—59.

Warnecke, G., Zur Verbreitung von Scotogramma (Mamestra) marmorosa Bkh. (Lep. Noct.) in Mittel- und Süddeutschland. Nachr. naturwiss. Mus. Aschaffenburg 37. 1952, 45—50.

Wenzel, G., Neues von Papilio podalirius L. und seiner Raupe. Ent. Ztschr., Frankfurt, 62. 1952, 44—46.

Wiltshire, E. P., Early stages of palearctic Lepidoptera, X. Bull. Soc. Fouad Ier Ent., Le Caire, 36 (45). 1952, 175—186, 1 tab.

Wiltshire, E. P., Middle-east Lepidoptera. X. More new species and forms from Persia (Iran) and Syria. Bull. Soc. Fouad Ier Ent., Le Caire, 36 (45). 1952, 187—210, 16 fig., 1 tab.

Wittstadt, H., Über die Markierung von lebenden Faltern. Ent. Ztschr., Frankfurt, 62. 1952, 47, 53—56.

Worz, A., Die Lepidopterenfauna von Württemberg. II. Microlepidopteren. Kleinschmetterlinge. Jahresh. Ver. vaterländ. Naturkunde Württemberg 107. 1952, 191—211.

Wright, D., Breeding Stauropus fagi Linn. (lobster prominent), Chaonia ruficornis Hufn. (lunar marbled brown) and Dasycampa rubiginea Schf. (dotted chestnut). Ent. Gaz. 3. 1952, 77—80.

Wright, D., Notes on Malacosoma neustria Linn. Ent. Rec., J. Variation 64. 1952, 172—174.

Zhukowskij, A. W., and **Petrowa, T. N.,** (New data on the biology of the stem moth, Ochsenheimeria sp.) Zool. Žh. (Zool. J.) 31. 1952, 669—672.

Zillig, H., Über das Auftreten von Clysia ambiguella Hb. und Polychrosis botrana Schiff. an verschiedenen Nährpflanzen. Dtsch. Weinbau/Wiss. Beih. 6. 1952, 120—121.

Živanović, V., Pojava leptira Pyrameis cardui L. u okolini Čačka. (Sur l'apparition de Pyrameis cardui L. dans les environs de Čačak.) (Plant Prot.), Beograd, nr. 12. 1952, 104—105.

Zocchi, R., Evergestis extimalis Scopoli. Boll. Ist. Ent. Univ. Bologna 18. 1950—1951, 350—379, 25 fig.

Ein **neuer Groß-Schädling.** [Hyphantria cunea] Gesunde Pflanzen 4. 1952, 87, 2 Abb.

Protect your garden corn from earworms (Heliothis armigera). US Dept. Agric. Ext. Serv. Leafl. 284. 1952, 4 p.

Schmetterlinge als Schädlinge. Gesunde Pflanzen 4. 1952, 88—89, 6 Abb.

Der Schwammspinner. [Lymantria dispar L.] Pflanzenarzt, Wien, 5. 1952, Nr. 3, S. 7, 1 Abb.

Der **Weiße Bärenspinner,** ein neuer Großschädling für die Forst- und Landwirtschaft vor den Grenzen Bayerns. Bauernwald 6. 1952, 26 (Beil. Landw. Wochenbl. München).

Wir stellen vor! (Der Weiße Bärenspinner.) (Hyphantria cunea Drury.) Pflanzenarzt, Wien, 5. 1952, Nr. 11, S. 7, 1 Abb.

Diptera

Abalos, J. W., Los flebotomos son insectos transmisores de varias enfermedades en el Norte del pais. Mundo agric., Barcelona, 4. 1952, nr. 43, p. 70—71.

Alexander, C. P., Los insectos de las Islas Juan Fernandez. 5. Tipulidae (Diptera). Rev. chilena Ent. 2. 1952, 35—80.

Auber, J., Note sur un diptère pupipare, ses parasites et hyperparasites. Entomologiste, Paris, 8. 1952, 90—91.

Bollow, H., Fliegen und Mücken als Parasiten, Schädlinge und Lästlinge. Pflanzenschutz, München, 4. 1952, 47—52, 7 Abb.

Borg, Å., (Tipulidae larvae threaten the marshlands.) Lantmannen 36. 1952, 407—408.

Boyes, J. W., A multiple sex-chromosome mechanism in a root maggot, Hylemyia fugax. J. Heredity 43. 1952, 195—199.

Britten, H., A list of Staffordshire Diptera. II. Trans., Ann. Rept. North Staffordshire Field Club 86. 1952, 44—58.

Buck, J. B., Keister, M. L., and **Posner, I.,** Physiological effects of DDT on Phormia larvae. Ann. ent. Soc. Amer. 45. 1952, 369—384.

Chagnon, G., Études preliminaires sur les diptères du Québec. Contrib. Inst. Biol. génet., Zool. Univ. Montreal 32. 1952, 34 p.

Ciampolini, M., La Pseudonapomyza dianthicola Venturi (Dipt. Agromyzidae). Redia, Firenze, 37 (2. ser.). 1952, 69—120, 33 fig.

Frick, K. E., A generic revision of the family Agromyzidae (Diptera) with a catalogue of new world species. Univ. Calif. Publ. Ent. 8. 1952, 339—452, 34 fig.

Frick, K. E., The status of Agromyza illinoensis Malloch, 1934, and its correct generic position (Agromyzidae, Diptera). J. Kansas ent. Soc. 25. 1952, 150—154.

Glendenning, R., Psila nigricornis Meig. (Diptera: Psilidae), a new pest of possible economic importance. Canad. Entomologist 84. 1952, 107—112.

Goffe, E. R., An outline of a revised classification of the Syrphidae (Diptera) on phylogenetic lines. Trans. Soc. brit. Ent. 11. 1952, 97—119, 3 fig.

Hardy, G. H., The reticulation theory of wing venation in Diptera. J. Soc. brit. Ent. 4. 1951, 27—36, 4 fig.

Harrison, R. A., New Zealand Drosophilidae (Diptera). 1. Introduction and descriptions of domestic species of the genus Drosophila Fallén. Trans. R. Soc. New Zealand 79. 1952, 505—517, 3 tab.

Harrison, R. A., A peculiar wing structure of Hydrellia tritici Coq. (Diptera: Ephydridae). Trans. R. Soc. New Zealand 79. 1952, 338—339, 1 fig.

Hennig, W., Die Larvenformen der Dipteren. Eine Übersicht über die bisher bekannten Jugendstadien der zweiflügeligen Insekten. 3. Teil. Akademie-Verlag, Berlin 1952. VII + 628 S., 338 Abb., 21 Taf.

Hering, E. M., Trypetidae (Dipt.) von Sumba und Flores. Verh. naturforsch. Ges. Basel 63. 1952, 41—48.

Issendorff, J. V., Operative Vernichtung von Raupenfliegen-Eiern. Ztschr. Lepidopt., Krefeld, 2. 1952, 35—36.

Johnston, C. J. R., The seedling maggot. [Hylemyia cilicrura] J. Dept. Agric. Victoria 50. 1952, 182.

Kolomiez, N. G., Nowyj wid roda Masicera is Sibiri (Diptera, Larvivoridae.). (Eine neue Art der Gattung Masicera aus Sibirien — Diptera, Larvivoridae.) Zool. Žh. (Zool. J.) 31. 1952, 297—304.

Konstantinow, A. S., (In regard to the biology and development of Chironomus [i. e. Tendipes] dorsalis Meig.) Obshch. Isp. Prirody, B. Otd. Biol., Moskwa, 57. 1952, nr. 1, p. 40—43.

Lundquist, A., Blattminennotizen. II. Opusc. ent., Lund, 17. 1952, 49—50.

Maercks, H., Über Brauchbarkeit und Dosierung einiger insektizider Wirkstoffe für die Winter- und Spätbekämpfung von Tipula paludosa L. Nachr.bl. dtsch. Pfl.schutzd., Braunschweig, 4. 1952, 129—133.

Martelli, M., Reperti sulla Terellia fuscicornis (Loew) (Diptera Trypetidae). Redia, Firenze, 37 (2. ser.). 1952, 405—442, 18 fig.

Meyer, J., Cécidogenèse de la galle de Lasioptera Rubi Heeger et rôle nourricier d'un mycélium symbiotique. Compt. rend. Acad. Sci., Paris, 234. 1952, 2556—2558.

Munro, H. K., A remarkable new gall-forming trypetid (Diptera) from southern Africa, and its allies. [Notomma galbanum and other species in Notomma] Un. South Afr. Dept. Agric. Ent. Mem. 2. 1952, 329—341.

Niblett, M., Retarded emergences in gall midges. Ent. Rec., J. Variation 64. 1952, 327—329.

Pitcher, R. S., Observations on the raspberry cane midge (Thomasiniana theobaldi Barnes). I. Biology. J. hortic. Sci., London, 27. 1952, 71—94, 10 fig., 3 tab.

Pitcher, R. S., and **Webb, P. C. R.,** Observations on the raspberry cane midge (Thomasiniana theobaldi Barnes). II. 'Midge blight', a fungal invasion of the raspberry cane following injury by T. theobaldi. J. hortic. Sci., London, 27. 1952, 95—100, 2 tab.

Possompès, B., Rôle du cerveau au cours de la metamorphose de Calliphora erythrocephala Meig. Trans. IXth int. Congr. Ent., Amsterdam, 1 (1951). 1952, 216—218.

Pritchard, A. E., A new gall midge pest (Asphonydylia photiniae) of toyon (Photinia arbutifolia) berries (Diptera: Itonididae). Pan-Pacific Ent. 28. 1952, 16.

Rao, S. N., Some new species of gall midges (Diptera: Itonididae) from India. Proc. R. ent. Soc. London 21 (ser. B). 1952, 49—55.

Ringdahl, O., (Notes on Diptera. X.) Opusc. ent., Lund, 17. 1952, 64.

Ryden, N., Zur Kenntnis der schwedischen Minierer. XV. Agromyziden von Gotland. Opusc. ent., Lund, 17. 1952, 25—32.

Sabrosky, C. W., The importance of associating reared adults with their immature stages. US Bur. Ent., Plant Quar., Washington, ET-300. 1952, 2 p.

Schmitz, H., Neue Arten von Gymnophora und Megaselia aus USA (Diptera, Phoridae). Brotéria, Lisboa, 21. 1952, 177—188.

Schneider, F., Einige physiologische Beziehungen zwischen Syrphidenlarven und ihren Parasiten. Ztschr. angew. Ent. 33. 1952, 150—162, 6 Abb.

Shiraki, T., Studies on the Syrphidae. 2. Some new species from Japan, with an interesting Trypetidae. [new species in Endoiasimyia, Cynorrhina, Penthesilia, Brachypalpus, Eumerus, Narumyia n. g., Euphranta] Mushi (Fukuoka ent. Soc.) 23. 1952, 1—15.

Snyder, F. M., New species of Pegomyia from Mexico (Diptera: Muscidae). Ann. ent. Soc. Amer. 45. 1952, 415—422.

Sylvén, E., Ytterligare erfarenheter om skidgallmyggans bekämpning. Växtskyddsnotiser, Stockholm; 16. 1952, 41—46, 2 fig.

Tapia, E. A., El gusano de la semilla (Hylemyia sp.). Almanaque Minist. Agric., Ganad., Buenos Aires, 26/27. 1951/1952, 256.

Fliegen als Schädlinge. Gesunde Pflanzen 4. 1952, 66—67, 6 Abb.

Leatherjackets, 1951—52. [Tipula spp.] Plant Pathology, London, 1. 1952, 136.

A list of the species of Syrphidae (Diptera) recorded from the British Isles grouped and arranged according to the revised classification proposed in this paper. Trans. Soc. brit. Ent. 11. 1952, 119—124.

Neuroptera

Bollow, H., Netzflügler (Neuroptera). Naturwiss. Grundbegr. landbaul. Praxis (Beil. zu »Pfl.schutz«), München, Zool. Reihe 1952, Nr. 26, 4 S.

Neumark, S., Chrysopa carnea Stephens and its enemies in Israel; Israel Forest Res. Stat. Publ. 1. 1952, 127 p.

Hymenoptera

Allen, A. A., The ants (Hym., Formicidae) and myrmecophiles of a suburban garden. Ent.'s mon. Mag., London, 88. 1952, 222.

Bernard, J., Observations sur le vol et la ponte chez Hoplocampa minuta Christ. (Hym. Tenthredinidae). Parasitica, Gembloux, 8. 1952, 159—173.

Bertran, A., Observaciones sobre la hormiga invasora. [Iridomyrmex humilis] Agricultura, Madrid, 21. 1952, 498—500.

Blanck, A., Les fourmis nuisibles et les moyens de les combattre. Phytoma, Paris, 5. 1952, nr. 35, p. 9—16, 1 fig., 1 tab. geogr., nr. 36, p. 12—17, 1 fig.

Bollow, H., Hautflügler (Hymenopteroidea) IV. Ameisen (Formicidae). Naturwiss. Grundbegr. landbaul. Praxis (Beil. zu »Pfl.schutz«), München, Zool. Reihe 1952, Nr. 21, 6 S., 2 Abb.

Bonelli, P. B., Osservazioni biologiche sul »Mellinus arvensis L.« e sull' »Oxybelus trispinosus F.« Boll. Ist. Ent. Univ. Bologna 19. 1952, 137—143, 5 fig.

Brian, M. V., Interaction between ant colonies at an artificial nest-site. Ent.'s mon. Mag., London, 88. 1952, 84—88.

Brian, M. V., and **Brian, A. D.,** The wasp, Vespula sylvestris Scopoli: feeding, foraging and colony development. Trans. R. ent. Soc. London 103. 1952, 1—26.

Brown, W. L., Composition of the ant tribe Typhlomyrmicini. Psyche, London, 59. 1952, 104.

Brown jr., W. L., Revision of the ant genus Serrastruma. Harvard Univ. Mus. comp. Zool. Bull. 107. 1952, 67—86.

Brun, R., Das Zentralnervensystem von Teleutomyrmex schneideri Kutt. ♀ (Hym. Formicid.). III. Mitteilung. Mitt. schweiz. ent. Ges. 25. 1952, 73—86, 7 Abb.

Brygider, W., In what embryonic stage do the eggs of Neodiprion enter the winter diapause? Canad. J. Zool. 30. 1952, 99—108, 2 fig., 2 tab.

Burnett jr., D., Pharaoh's ant (Monomorium pharaonis). Pest Control 20. 1952, nr. 2, p. 22, 24, 28.

Carthy, J. D., The return of ants to their nest. Trans. IXth int. Congr. Ent., Amsterdam, 1 (1951). 1952, 365—369, 1 fig.

Chambers, V. H., The natural history of some Pamphilius species (Hym., Pamphiliidae). Trans. Soc. brit. Ent. 11. 1952, 125—140, 4 tab.

Cinovskis, J., (Einfluß der Umweltfaktoren auf den Tagesrhythmus der Aktivität der Sägewespen.) LPSR ZA Vēstis 1950, nr. 8, p. 65—71.

Cinovskis, J., (Materialien zur Fauna der Sägewespen der Lettischen SSR.) LPSR ZA Vēstis 1949, nr. 2, p. 105—124.

Cole, A. C., A new Pheidole (Hymenoptera: Formicidae) from Florida. Ann. ent. Soc. Amer. 45. 1952, 443—444.

Cole, A. C., A new subspecies of Trachymyrmex smithi (Hymenoptera: Formicidae) from New Mexico. J. Tennessee Acad. Sci. 27. 1952, 159—162.

Cole, A. C., Notes on the Pheidole pilifera (Roger) complex and a description of a new subspecies (Hymenoptera: Formicidae). J. Tennessee Acad. Sci. 27. 1952, 278—280.

Consani, M., Formiche dell' Africa Orientale. Boll. Ist. Ent. Univ. Bologna 18. 1950—1951, 167—172, 4 fig.

Cooper, K. W., Records and flower preferences of masarid wasps. II. Polytropy or oligotrophy in Pseudomasaris? (Hymenoptera: Vespidae). Amer. Midland Naturalist 48. 1952, 103—110.

Creighton, W. S., Studies on Arizona ants. 3. The habits of Pogonomyrmex huachucanus Wheeler and a description of the suxual castes. Psyche, London, 59. 1952, 71—81.

Currie, P. W. E., The sawflies of the Cripplegate bombed sites. London Naturalist 31. 1952, 89—91.

De Vries, J. P., Argentine ant (Iridomyrmex humilis) threatens world's food; methods of eradication in homes and orchards to restore balance of nature. Farmer's Weekly, Bloemfontein, 83. 1952, 55, 57.

Dimmick, J. F., An ecological study of Formica formica exsectoides. Trans. Illinois State Acad. Sci. 44. 1952, 197—204.

Dürr, H. J. R., The Argentine ant Iridomyrmex humilis (Mayr). I. Its distribution, harmfulness and life cycle. II. Control measures. Farming South Afr. 27. 1952, 381—384, 390, 429—431, 442.

Eisner, T., and **Wilson, E. O.,** The morphology of the proventriculus of a formicine ant. [Camponotus americanus] Psyche, London, 59. 1952, 47—60.

Enzmann, E. V., Woitkowskia, a new genus of army ants. Proc. Iowa Acad. Sci. 59. 1952, 442—447, 1 tab.

Favard, P., Les fourmis nuisibles et leurs rapports avec les pucerons et cochenilles. Progr. agric., vitic. 137. 1952, 358—362.

Fedder, M. L., (House ants.) [Monomorium pharaonis L.] Priroda, Moskwa, 41. 1952, nr. 10, p. 119.

Finlayson, L. H., Host selection by Cephalonomia waterstoni Gahan. (Hym. Bethylidae). Trans. IXth int. Congr. Ent., Amsterdam, 1 (1951). 1952, 370—374, 3 fig.

Flanders, St. E., Ovisorption as the mechanism causing worker development in ants. J. econ. Ent. 45. 1952, 37—39.

Forbes, J., The genitalia and terminal segments of the male carpenter ant, Camponotus pennsylvanicus De Geer (Formicidae, Hymenoptera). J. New York ent. Soc. 60. 1952, 157—171.

Furukawa, H., Heterocolonial social transplantation — experiments on the common Japanese ant, Camponotus japonicus (No. 1). Annot. zool. jap., Tokyo, 25. 1952, 284—288.

Gaul, A. T., Additions to vespine biology. IX. Temperature regulation in the colony. Bull. Brooklyn ent. Soc., Lancaster, 47. 1952, 79—82.

Gerhardt, P. D., Mechanical control of ants. Citrus Leaves 32. 1952, 11, 30, 32.

Gerhardt, P. D., Sprays for Argentine ant control. [Iridomyrmex humilis] Calif. Citrogr. 37. 1952, 448—449.

Gluck, B. L., Slave-maker ants. [chiefly photographs] Frontiers (Mag. natural Hist.), Philadelphia, 16. 1952, 126—127.

Gößwald, K., Anlage einer Station zur Massenzucht von Königinnen der Kleinen Roten Waldameise. Ztschr. angew. Ent. 33. 1952, 77—104, 13 Abb.

González Mendoza, R., Resumen sobre experimentos de control quimico de hormigas arrieras. [Atta] Rev. nac. Agric., Bogotá, 46. 1952, nr. 563, p. 44—46.

Grant, H. J., Some morphological aspects of the larva of Myrmica brevinodis sulcinodoides (Hymenoptera: Formicidae). J. Colorado-Wyoming Acad. Sci. 4. 1952, 102.

Green, H. B., Biology and control of the imported fire ant in Mississippi. J. econ. Ent. 45. 1952, 593—597.

Gregg, R. E., The ants of Colorado — a progress report. J. Colorado-Wyoming Acad. Sci. 4. 1952, 103.

Gregg, R. E., A new ant of the genus Pheidole from Colorado. Amer. Mus. Novit., New York, 1557. 1952, 4 p.

Grundmann, A. W., A new Brachymyrmex from northern Utah (Hymenoptera: Formicidae). J. Kansas ent. Soc. 25. 1952, 117.

Gunn, W. B., and **Hoff, C. C.,** The altitudinal distributions of ants in the Sandia Mountains of New Mexico. J. Colorado-Wyoming Acad. Sci. 4. 1952, 101.

Haine, E., Weitere Bekämpfungsversuche mit Euproctis chrysorrhoea L. und Diprion sertifer Geoffr. Anz. Schädl.kunde 25. 1952, 129—132.

Hall, D. W., and **Smith, I. C.,** Studies in Pharaoh's ant, Monomorium pharaonis (L.). 7. Thoracic structures, typical and atypical. Ent.'s mon. Mag., London, 88. 1952, 97—102.

Haws, L. D., and **Knowlton, G. F.,** Heptachlor in western harvester ant [Pogonomyrmex occidentalis] control. Proc. Utah Acad. Sci. Arts, Lett. 29. 1952, 48—49.

Heqvist, K. J., (Some observations on the ravages of the pale sawfly (Diprion pallidum Klug).) Svenska Skogsvårdsfören. Tidskr., Stockholm, 50. 1952, 221—230.

Hodson, A. C., How to control ants. Minnesota Univ. Agric. Ext. Folder 54. 1952, 4 p.

Hölldobler, K., Über eine Milbenschädigung der Roßameise (Camponotus herculeanus), die durch eine Fehlreaktion des Wirtes wirksam wird. Ztschr. angew. Ent. 33. 1952, 104—107.

Hudson, N. M., House ants. Austr. Dairy Rev. 22. 1952, nr. 2, p. 26.

Hussey, N. W., New records of Megastigmus (Hymenoptera Chalcididae) in Scotland with a note on the first recorded parasites of Megastigmus spermotrophus Wachtl. Scot. Forestry 6. 1952, 53—55.

Kirchner, Honigbienen als Schädlinge. Nachr.bl. dtsch. Pfl.schutzd., Berlin, N.F. 6. 1952, 152.

Krombein, K. V., Biological and taxonomic observations on the wasps in a coastal area of North Carolina (Hymenoptera; Aculeata). Wasmann J. Biol., San Francisco, 10. 1952, 257—341.

Krombein, K. V., Preliminary annotated list of the wasps of Lost River State Park, West Virginia, with descriptions of new species and biological notes (Hymenoptera, Aculeata). [Spilomena, Crossocerus] Proc. ent. Soc. Washington 54. 1952, 175—184. — Trans. amer. ent. Soc. 78. 1952, 89—100.

Kubiczek, H., Die Wespenplage. Österr. Imker 2. 1952, 182—183.

Kusnezow, N., Algunos datus sobre la dispersion geografica de hormigas (Hymenoptera, Formicidae) en la Republicia Argentina. An. Soc. cient. argent., Buenos Aires, 153. 1952, 230—242.

Kusnezow, N., La posición sistemática de la subfamilia Cerapachyinae (Hymenoptera, Formicidae). Dusenia 3. 1952, 115—117.

Kutter, H., Bemerkenswerte Mißbildung bei Leptothorax acervorum Latr. (Hym. Formicid.). Mitt. schweiz. ent. Ges. 25. 1952, 354.

Kutter, H., Epimyrma stumperi Kutter (Hym. Formicid.) 2. Mitteilung. Mitt. schweiz. ent. Ges. 24. 1951, 153—174, 14 Abb.

Kutter, H., Über Plagiolepis xene Stärcke (Hym. Formicid.). Mitt. schweiz. ent. Ges. 25. 1952, 57—72, 8 Abb.

Laberge, W. E., Locality records of two ants found in Kansas. J. Kansas ent. Soc. 25. 1952, 59.

Laudani, H., and **Vanderford, H. T.,** Control of little black (Monomorium minimum) Pharaoh (M. pharaonis) and Argentine (Iridomyrmex humilis) ants. Pest Control 20. 1952, nr. 5, p. 18, 20, 22.

Le Masne, G., Les échanges alimentaires entre adultes chez la fourmi Ponera eduardi Forel. Compt. rend. Acad. Sci., Paris, 235. 1952, 1549—1551.

Lindgren, H., (Bumblebees (Bombidae) and leaf-cutting bees (Megachilidae).) Bitidningen 51. 1952, 139—141.

Manigault, E. L., Of ants and people. [habits and behavior] Home Gardg., London, 20. 1952, nr. 5, p. 23—25.

Masi, L., Descrizione di una nuova specie del genere »Lanceosoma« Erdös (Hymenoptera Chalcidoidea, Pteromalidae). Boll. Ist. Ent. Univ. Bologna 19. 1952, 391—393.

Michener, C. D., A note on the larvae of sphecid wasps. J. Kansas ent. Soc. 25. 1952, 139—141.

Middlekauff, W. W., Notes on two species of California stem borers (Hymenoptera, Cephidae). Pan-Pacific Ent. 28. 1952, 108—109.

Morley, D. W., A series of taxonomic inaccuracies, anomalies, and some monstrosities of nomenclature in the Formicidae. Trans. IXth int. Congr. Ent., Amsterdam, 1 (1951). 1952, 206.

Morley, D. W., Some throughts arising from the application of sociological interpretation to ant life. Trans. IXth int. Congr. Ent., Amsterdam, 1 (1951). 1952, 401.

Newell, R. E., Control for ants and termites. [chlor kil 5 dust] Amer. Bee J. 92. 1952, 67.

Niblett, M., A note on Rhodites eglanteriae Hartig, Cynipidae (Hym). Entomologist, London, 85. 1952, 280—281.

Nijveldt, W., Galmuggen van cultuurgewassen. I. Galmuggen van fruitgewassen. (Gallmidges on culturecrops. I. Gallmidges on fruitcrops.) Tijdschr. Plantenziekten 58. 1952, 61—80, 28 fig.

Novák, V., a Gregor, F., Jednoduchá metoda stanoveni poměru pohlaví housenic ploskohrbetky smrkové Cephaleia abietis L. (Einfache Methode zur Bestimmung des Geschlechtsverhältnisses der Raupen von Cephaleia abietis L.) Lesn. Práce (Oeuvre Forest.), Písek, 31. 1952, 221—224.

O'Rourke, F. J., A preliminary ecological classification of ant communities in Ireland. Ent. Gaz. 3. 1952, 69—72.

Otamendi, J. C., Como pueden combatirse las hormigas podadoras »atinas«. [Atta, Acromyrmex] Res, Buenos Aires, 20. 1952, 26949—26950.

Otamendi, J. C., Las hormigas podadoras; un elemento eficaz para combatirlas. Res, Buenos Aires, 20. 1952, 26886.

Palmer, E. I., Wasps, bees, ants and their kin. Nature Mag., Baltimore, 45. 1952, 361—368.

Patrizi, S., Contribuzioni alla conoscenza delle formiche e dei mirmecofili dell' Africa Orientale. Boll. Ist. Ent. Univ. Bologna 18. 1950—1951, 259—271, 3 fig.

Pillault, R., Notes sur Dryinus tarraconensis (Hym. Dryinidae) prédateur d'une Cicadelle. Ann. Soc. ent. France 120 (1951). 1952, 67—76.

Reeks, W. A., Establishment of Exenterus spp. (Hymenoptera: Ichneumonidae), parasites of the European spruce sawfly (Diprion hercyniae), near points of introduction. Canad. Entomologist 84. 1952, 76—86.

Sant'Anna, B., (Control of Atta with methyl bromate.) Rev. Agric., Piracicaba, 27. 1952, 139—140.

Shelochowzew, A. N., Obsor pililschtschikow podsem. Cladinae fauny SSSR. (Übersicht über die Blattwespen — Hymenoptera, Tenthredinidae, Unterfamilie Cladinae — der UdSSR.) Soolog. Shurnal 31. 1952, 257—268.

Stritt, W., Die Blatt-, Halm- und Holzwespen des Wutachgebietes. (Hym. Symph.) Beitr. naturkundl. Forsch. Südwestdeutschl. 11. 1952, 37—44.

Stumper, R., Sur les sécrétions odorantes de quelques fourmis. Compt. rend. Acad. Sci., Paris, 235. 1952, 526—528.

Thomas, C. R., The European wasp (Vespula germanica) in New Zealand. R. Soc. New Zealand Sci. Congr. Rept. 7. 1952, 92—96.

Tokunaga, M., Tsujita, M., and **Yamazaki, A.,** Studies on the larvae of the Tenthredinidae. III-5. [III, Arge nipponensis; IV, Cladius pectinicornis; V, Emphytus albicinctus meridionalis] Mushi (Fukuoka ent. Soc.) 23. 1952, 33—36, 57—64.

Valdes Barry, F., Control de la bibijagua con aldrin. Agrotecnia (Cuba) 7. 1952, 59—62.

Valentini, S., Sur l'adaptation des larves de Formicoidea. Ann. Sci. naturelles, Zool., Biol. anim., Paris, 13 (ser. 11). 1952, 249—276.

Valkeila, E., (A method for rearing Hymenoptera.) Suomen Hyönteistiet. Aikakausk. (Ann. ent. fenn.), Helsinki, 17. 1952, 85—88.

Wadd, J. C., Wasps and their ways. Brit. Bee J. 80. 1952, 570.

Wallace, G. E., Formica sanginea subintegra Emery raiding its own subspecies. Ent. News, Philadelphia, 63. 1952, 152—153.

Walrecht, B. J. J. R., The building instinct of the social wasps. V, VII. Levende Natuur, Amsterdam, 55. 1952, 35—40, 116—120.

Walrecht, B. J. J. R., and **van Heerdt, P. F.,** The building instinct of the social wasps. VIII-IX. Levende Natuur, Amsterdam, 55. 1952, 150—159.

Weld, L. H., New American cynipid wasps from galls. Proc. US Nat. Mus., Washington, 102. 1952, 315—342, 2 tab.

Wellmann, G., Über die Notwendigkeit der Wespenbekämpfung. Tierärztl. Wochenschr., Berlin, München, 1. 1952, 1—12.

Wene, G. P., and **White, A. N.,** Control of the Texas harvester ant. J. econ. Ent. 45. 1952, 745—746.

West, A. S., Notes on Leconte's sawfly (Neodiprion lecontei). Canadian Entomologist 84. 1952, 59—61.

Wheeler, G. C., and **Wheeler, J.,** The ant larvae of the subfamily Ponerinae. I, II. Amer. Midland Nat. 48. 1952, 111—144, 604—672.

Wilson, E. O., Notes on Leptothorax bradleyi Wheeler and L. wheeleri M. R. Smith (Hymenoptera: Formicidae). Ent. News, Philadelphia, 43. 1952, 67—71.

Wilson, E. O., The Solenopsis saevissima complex in South America (Hymenoptera: Formicidae). Mem. Inst. Oswaldo Cruz 50. 1952, 60—68.

Wright, P. H., The control of ants by DDT. Glean. Bee Cult., Medina, 80. 1952, 342.

Zirngiebl, L., Ein bilateraler Zwitter der Blattwespe Tenthredo atra L. Jahresh. Ver. vaterländ. Naturkunde Württemberg 107. 1952, 89—94.

Zunino, H. A., Contra las hormigas podadoras. [Atta sexdens] Chacra, Buenos Aires, 22. 1952, nr. 263, p. 53—54.

Varia

Hughes, G. M., Abdominal mechano-receptors in Dytiscus and Locusta. Nature, London, 170. 1952, 531—532, 2 fig.

e. Vertebrata

Aves

Chisholm, A. H., Strange relations of birds and insects. Nature Mag., Baltimore, 45. 1952, 526—528, 550.

Eisentraut, A., Bekämpfung der Sperlinge. Pfl.schutzamt Sachsen-Anhalt Merkbl. Nr. 60. 1952, 3. Aufl., 4 S., 5 Abb.

Engel, Durchgreifende Spatzenbekämpfung. Bauern-Ztg. 5. 1952, Nr. 4, S. 5.

Fritsch, R. H., Speicher und Schmieden der Spechte. Naturwiss. Rundschau 5. 1952, 108—112, 2 Abb.

Gersdorf, E., Auftreten und Bekämpfung des Haussperlings. Nachr.bl. dtsch. Pfl.schutzd., Braunschweig, 4. 1952, 133—136.

Henze, O., Fortschritte in der Krähen- und Elsternbekämpfung. Wild u. Hund 54. 1952, 554.

Henze, O., Eine Million Hausspatzen zuviel! Anz. Schädl.kunde 25. 1952, 19—21.

Kirchner, Ein Beitrag aus Mecklenburg zum »Krähenproblem«. Nachr.bl. dtsch. Pfl.schutzd., Berlin, NF. 6. 1952, 101—104, 1 Landkarte.

Kneifert, Schäden durch Sperlinge. Gartenwelt 52. 1952, 69, 2 Abb.

Mansfeld, K., Krähenbekämpfung. Biol. Zentralanst., Berlin, Flugbl. Nr. 3. 1952, 6 S., 1 Abb.

Mansfeld, K., Probleme der Krähenbekämpfung. Nachr.bl. dtsch. Pfl.schutzd., Berlin, NF. 6. 1952, 54—60.

Mieller, H., Erfahrungsberichte über die Hamburger Sperlingsbekämpfung. Anz. Schädl.kunde 25. 1952, 132—133.

Mieller, H., Winke zur Sperlingsbekämpfung. Gartenwelt 52. 1952, 70.

Naphtali, J., (How to prevent damage caused to crops by sparrows and bulbuls.) Hassadeh, Tel-Aviv, 32. 1952, 155—158, 210—212.

Pfeifer, S., Sperlingsverminderung mittels Fallen. Anz. Schädl.kunde 25. 1952, 28—30, 2 Abb.

Schmidt, H. W., Aufstellen von Krähenschlagfallen. Techn. Bauern, Gärtner (Ausg. A) 4. 1952, 547—548.

Steinbacher, J., Zur Frage der Sperlingsbekämpfung durch Gift. Anz. Schädl.kunde 25. 1952, 26—27.

Steiniger, F., Dachschäden durch Sperlinge. Gesunde Pflanzen 4. 1952, 12—13, 2 Abb.

Steiniger, F., Die Giftmethode in der Sperlingsbekämpfung. Anz. Schädl.kunde 25. 1952, 21—26, 2 Abb.

Stöhr, W., 600 auf einen Streich! Erfolgreiche Spatzenbekämpfung mit Grünkorn in Altenbauna. Landw. Wochenbl. Kurh., Waldeck 167. 1952, 62, 1 Abb.

Stolze, K. V., Notwendigkeit und Möglichkeiten der Sperlingsbekämpfung im Blickwinkel der Erfordernisse des Pflanzenschutzes. Anz. Schädl.kunde 25. 1952, 17—19.

Schäden durch Ringeltauben. Landw. Ztschr. Nord-Rheinprov. 119. 1952, 935.

Mammalia

Insectivora

Dionne, G., Comment détruire la taupe. Rustica (France) 25. 1952, 1131.

Henning, W. L., Method for keeping the eastern mole in captivity. J. Mammal., Baltimore, 33. 1952, 392—395.

Ophof, A. J., Bestrijding van mollen. Tuinbouwgids, Den Haag, 1952, 264.

Spannhof, L., Spitzmäuse. Neue Brehm-Bücherei (Akad. Verl.ges. Geest & Portig, K.-G., Leipzig) H. 48. 1952, 44 S., 13 Abb.

Rodentia

(Siehe auch — see also — voyez aussi p. 354.)

Ballard, S., The rabbit plague. Quart. J. Forestry (England) 46. 1952, 264—265.

Becker, K., Haarwechselstudien an Wanderratten (Rattus norwegicus Erxl.). Biol. Zentralbl. 71. 1952, 626—640, 7 Abb.

Becker, K., Die Hausratte (Rattus rattus L.) in Berlin und im Fläming. Vergleich zweier Populationen. Zool. Anz. 148. 1952, 259—269, 1 Abb.

Bull, P. C., Distribution of the nematode Trichostrongylus retortaeformis (Zeder, 1800) in the wild rabbit, Oryctolagus cuniculus (L.). New Zealand J. Sci., Technol. (B) 34. 1952, 449—456, 1 fig.

Bull, P. C., Parasites of the wild rabbit, Oryctolagus cuniculus (L.) in New Zealand. New Zealand J. Sci., Technol. (B) 34. 1952, 341—372, 3 fig.

Chitty, D., Mortality among voles (Microtus agrestis) at Lake Vyrnwy, Montgomeryshire, in 1936—39. Philos. Trans. R. Soc. (ser. B), London, 236. 1952, 505—552.

Dekking, F., A cheap and safe method of keeping mice. Antonie van Leeuwenhoek, J. Microbiol., Serol., 18. 1952, 182, 1 fig.

Dodge, H. R., A possible case of blowfly myiasis in a rat, with notes on the bionomics of Bufolucilia silvarum (Mg.). Ent. News, Philadelphia, 63. 1952, 212—214.

Eibl-Eibesfeldt, I., Beobachtungen zur Fortpflanzungsbiologie und Jugendentwicklung des Eichhörnchens (Sciurus vulgaris L.). Ztschr. Tierpsychol. 8. 1951, 370—400.

Eisentraut, M., Beobachtungen über den Winterschlaf der Hamster, insbesondere des Goldhamsters (Mesocricetus auratus Waterh.). Zool. Anz. 149. 1952, 115—124, 2 Abb.

Engel, Wühlmaus und Maulwurf auf unseren Fluren. Bauern-Ztg. 5. 1952, Nr. 9, S. 6, 11.

Englert, Zur Frage der Wühlmausbekämpfung. Obstbau, Stuttgart, 71. 1952, 42.

Erschowa, I. P., (Über einige Besonderheiten der Geruchsrezeption bei Nagern.) Zool. Žh. (Zool. J.) 31. 1952, 146—149.

Felten, H., Untersuchungen zur Ökologie und Morphologie der Waldmaus (Apodemus sylvaticus L.) und der Gelbhalsmaus (Apodemus flavicollis Melchior) im Rhein-Main-Gebiet. Bonner zool. Beitr. 3. 1952, 187—206, 2 Abb.

Fischer, H., Ein neues Verfahren zur Bekämpfung von Wühlmäusen (Arvicola terrestris L.). Schädlingsbekämpfung 44. 1952, 201—206, 2 Abb.

Fitzwater, W. D., Field mice. Pest Control (Ohio) 20. 1952, nr. 10, p. 30, 74.

Frank, F., Adoptionsversuche bei Feldmäusen (Microtus arvalis Pall.). Ztschr. Tierpsychol. 9. 1952, 415—423.

Frank, F., Kleine Beobachtungen an der Zwergmaus (Micromys minutus Pall.) mit ökologischen Folgerungen. Bonner zool. Beitr. 3. 1952, 207—209.

Frank, F., Sind Misteldrossel-Ausbreitung und Feldmaus-Massenwechsel gleichartige Erscheinungen? J. Ornithol., Berlin, 93. 1952, 353—356.

Gaudchau, M. D., Nicht nachlassen bei Wühlmausbekämpfung. Württemb. Wochenbl. Landw. 119. 1952, 719.

Gaudchau, M. D., Wanderratte und Hausratte. Württ. Wochenbl. Landw. 119. 1952, 1016—1017.

Goossen, H., Kann man das Dorf rattenfrei halten? Landw. Wochenbl. Westf., Lippe 109 A vom 27. 11. 1952.

Gunderson, H., How the Sioux City stockyard controlled its rat population. Pest Control Mag. 1952, 46—48.

Hasenow, W., Der Schrecken fuhr unter die Wühlmäuse. Schädlingsbekämpfung 44. 1952, 136.

Heptner, W. G., Systematische Lage der Wühlmäuse (Arvicola Lac., Mammalia, Muridae) und ihre Einteilung in größere Gruppen. Bull. Soc. Naturalistes Moscou (Sect. biol.) n. ser. 57. 1952, 58—61.

Hoffmann, M., Die Bisamratte. Neue Brehm-Bücherei (Akad. Verl.ges. Geest & Portig, K.-G., Leipzig) H. 78. 1952, 44 S., 27 Abb.

Hoffmann, M., Vom Vorkommen des Sumpfbibers (Nutria) Myocastor coypus Mol. in der freien Natur in Sachsen-Anhalt. Nachr.bl. dtsch. Pfl.schutzd., Berlin, NF. 6. 1952, 216—219, 3 Abb., 1 Landkarte.

Howard, W. E., The pesky pocket gopher. Spreckels Sugar Beet Bull. 16. 1952, 21—22.

Ingles, L. G., The ecology of the mountain pocket gopher, Thomomys monticola. Ecology 33. 1952, 87—95.

Jackson, W. B., Populations of the wood mouse (Peromyscus leucopus) subjected to the applications of DDT and parathion. Ecol. Monogr., Durham, 22. 1952, 259—281.

Jungfer, W., Massenauftreten der Waldmaus auf einer Vogelinsel. Schädlingsbekämpfung 44. 1952, 185—186, 1 Abb.

Kalabutschow, N. I., (Zum Problem der Rolle der verschiedenen Rezeptoren bei der Futtersuche der Nager.) Zool. Žh. (Zool. J.) 31. 1952, 564—570.

Klemm, M., Bisamratte (Ondatra zibethica L.) bei Potsdam. Nachr.bl. dtsch. Pfl.schutzd., Berlin, NF. 6. 1952, 76.

Klemm, M., Verbreitung und Bekämpfung der Bisamratte (Ondatra zibethica L.) in der DDR in den Jahren 1950/51 unter Berücksichtigung der Jahre 1946 bis 1951. Nachr.bl. dtsch. Pfl.schutzd., Berlin, NF. 6. 1952, 161—166, 5 Abb., 3 Landkarten.

Klemm, M., Zunehmendes Auftreten der Feldmäuse im Herbst 1951. [Microtus arvalis L.] Nachr.bl. dtsch. Pfl.schutzd., Berlin, NF. 6. 1952, Beil. zu H. 2/3, 1 S., 1 Landkarte.

Klett, Die Feldmaus, ein »Steppentier«. Württ. Wochenbl. Landw. 119. 1952, 802.

Klett, Zwei, die den Winter gut überstanden haben. [Raps-Erdfloh, Feldmaus] Württemb. Wochenbl. Landw. 119. 1952, 286.

Knutson, H., and Szymkowicz, R. T., Ectoparasitism of Norway rats in an inland New England village and in a New England seaport. J. econ. Ent. 45. 1952, 338—339.

Löhrl, H., Eulen als Mäusejäger. Bad. landw. Wochenbl. 119. 1952, 27.

McAuley Gracie, W., The menace of the wild rabbit. Quart. J. Forestry (England) 46. 1952, 166—170.

Mehl, S., Die Ratten. Wanderratte und Hausratte. Biol. Bundesanst., Braunschweig, Flugbl. C 4. 1952, 2. Aufl., 12 S., 6 Abb.

Merthyr, The rabbit problem. Quart. J. Forestry (England) 46. 1952, 147—152.

Nélis, P., Lafontaine, A., et Cleempoel, S., Essais de destruction des rats musqués par des techniques bactériologiques. [Fiber zibethicus] Parasitica, Gembloux, 8. 1952, 58—63.

Neuhaus, W., Zur Frage der Duftanlockung der Ratten. Anz. Schädl.kunde 25. 1952, 87—89.

Notini, G., och Forselius, S., Vildkaninen på Gotland. (The rabbit problem in the Gotland Island.) Kungl. Skogshögsk. Skr. (Bull. R. School Forestry), Stockholm, nr. 9. 1952, 112 p., 39 fig.

Özkan, A., Türkiye'de tesbit edilen Rodentia'ların listesi. (Eine Liste der in der Türkei festgestellten Nagetiere.) Bitki Koruma Bült. (Bull. Plant Prot.), Ankara, 1952, nr. 1, p. 75—77.

Orsini, M. W., and Pansky, B., The natural resistance of the golden hamster to colchicine. Science, Lancester, 115. 1952, 88—89.

Penton, A., Mayhem for mice. Organic Farmer 3. 1952, nr. 6, p. 41—42, 44—45.

Petzsch, H., Geglückte Freiluft-Überwinterung eines männlichen syrischen Goldhamsters (Mesocricetus auratus Waterhouse) und deren Konsequenzen. Anz. Schädl.kunde 25. 1952, 91—92.

Petzsch, H., Ungewöhnliches Nestbau- und Mundvorrats-Material im Erdbau eines Hamsters (Cricetus cricetus L.). Anz. Schädl.kunde 25. 1952, 172.

Pschorn-Walcher, H., Neuere Ansichten über die Massenvermehrung der Feldmäuse. Pflanzenarzt, Wien, 5. 1952, Nr. 12, S. 5—6.

Reich, H., Muß das sein? Betrachtungen zur Wühlmausplage. Mitt. Mitgl. Obstbauvers.ring Altes Land usw., Jork, 7. 1952, 117—118.

Reich, H., Woran erkennt man das Vorkommen von Bisamratten? Mitt. Mitgl. Obstbauvers.ring Altes Land usw., Jork, 7. 1952, 89—90.

Schmidt, G., Etwas über Wühlmäuse und ihre Bekämpfung. Kleingärtner u. Siedler 6. 1952, 165, 1 Abb.

Schreier, O., Die Feldmaus. Bundesanst. Pfl.schutz, Wien, Flugbl. 84. 1952, 2 S.

Smith, W. W., The house mouse (Mus musculus Linnaeus) in Mississippi: reproduction, ectoparasites, and relation to murine typhus. [fleas, lice, and mites] Tulane Univ. Louisiana, Grad. School Abstr. Diss., Theses 1952, 70—74.

Stein, G. H. W., Über Massenvermehrung und Massenzusammenbruch bei der Feldmaus (Microtus arvalis). Nachr.bl. dtsch. Pfl.schutzd., Berlin, NF. 6. 1952, 94—96. — Zool. Jahrb., Abt. Syst., Oekol., Geogr. Tiere, 81. 1952, 1—26.

Steiniger, F., Rattenbiologie und Rattenbekämpfung einschließlich der Toxikologie gebräuchlicher Rattengifte. F. Enke, Stuttgart 1952. VII + 149 S., 33 Abb.

Stephens, M. N., Seasonal observations on the wild rabbit (Oryctolagus cuniculus cuniculus L.) in West Wales. Proc. zool. Soc. London (B) 1952, 417—434.

Stieve, H., Zur Fortpflanzungsbiologie des europäischen Feldhasen (Lepus europaeus Pallas). Zool. Anz. 148. 1952, 101—114.

Svihla, A., Bowman, H., and **Pearson, R.,** Prolongation of blood clotting time in the dormant hamster. Science, Lancaster, 115. 1952, 272.

Trehan, K. A., Field rats and their control in the Punjab. Indian Farming (n. s.) 2. 1952, nr. 2, p. 10—12.

Tschenzowa, N. I., (Behavior of mice-like rodents in the search for food and protection of planted (tree) seeds from them.) Zool. Žh. (Zool. J.) 31. 1952, 422—433.

Wolburg, I., Über Vorzugstemperaturen von Muriden. Biol. Zentralbl. 71. 1952, 601—617, 12 Abb.

Worden, A. N., The rabbit menace. [Great Britain] Farmers Ann. 1952, 45—46.

Young, H., Neess, J., and **Emlen, J. T.,** Heterogenicity of trap response in a population of house mice. J. Wildlife Managem. 16. 1952, 169—180.

Zimmermann, K., Das Verhalten verpaarter Feldmäuse, Microtus arvalis (Pall.), bei Begegnung und Trennung. Ztschr. Tierpsychol. 9. 1952, 1—11.

Forsøgsudryddelse af rotter. (Expérience d'éradication de rats.) Indenrigsminist. København 1952. 20 p.

Großrazzia auf Wühlmäuse in Baumanlagen. Obstbau, Stuttgart, 71. 1952, 42.

Im Nachsommer die Wühlmäuse vertreiben! Landw. Wochenbl. Kurh., Waldeck 167. 1952, 1010.

Die Wühlmaus. Landw. Ztschr. Nord-Rheinprov. 119. 1952, 652, 2 Abb.

Artiodactyla

(Siehe auch — see also — voyez aussi p. 255.)

Große-Lümern, Bodenuntersuchung und Wildschaden. Rhein. Bauernztg. 6. 1952, 608.

Klemm, M., Schwarzwildbekämpfung in Hessen in den Jahren 1947 bis 1951. Nachr.bl. dtsch. Pfl.schutzd., Berlin, NF. 6. 1952, 118.

Kuss, Zur Frage der Wildschäden. Landw. Ztschr. Nord-Rheinprov. 119. 1952, 125—126.

Reichmuth, W., Anforderungen an Mittel zur Verhütung von Wildschäden auf landwirtschaftlich oder gärtnerisch genutzten Flächen. Nachr.bl. dtsch. Pfl.schutzd., Braunschweig, 4. 1952, 6—9.

Reinhardt, W., Aktuelle Wildschadensfragen. Landw. Ztschr. Nord-Rheinprov. 119. 1952, 565.

Reininger, H., Über das Schälen und den Verbiß des Rotwildes. Allg. Forstztg., Wien, 63. 1952, 11—12.

Stifel, W., Was wird aus unseren Schwarzwildschäden? Bauern-Ztg. 5. 1952, Nr. 7, S. 3, 8.

Trappmann, W., Voraussetzungen und Organisation der amtlichen Prüfung von Wildverbißschutzmitteln. Nachr.bl. dtsch. Pfl.schutzd., Braunschweig, 4, 1952, 9.

Türcke, Die experimentelle Untersuchung von Wildverbißschutzmitteln. Nachr.bl. dtsch. Pfl.schutzd., Braunschweig, 4. 1952, 5—6.

Ueckermann, E., Der Einzelschutz der Bäume gegen das Schälen des Rotwildes. Forsttechn. Inform. 49. 1952, 1—3.

Schutz wertvoller Holzarten. Stachelbaum zur Wildschadenverhütung. Landw. Wochenbl. Kurh., Waldeck 167. 1952, 1514.

Wildverbißschutzmittel. Nachr.bl. dtsch. Pfl.schutzd., Braunschweig, 4. 1952, 1—9.

6. Virus

a. Allgemeiner Teil
General part — Partie générale

Bjørnstad, A., (Viruses and virus diseases of plants.) Norsk Landbruk, Oslo, 18. 1952, 103—105.

Gönnert, R., Über Virusmorphologie und Virusvermehrung. Behringwerk-Mitt. H. 25. 1952, 61—91, 11 Abb.

Lobo, M. R. C., Virus e viroses. Gaz. Agric., Moçambique, 4. 1952, 114—119, 9 fig.

Matthews, R. E. F., Genetics in relation to viruses. New Zealand R. Soc. Sci. Congr. Rept. 7. 1952, 255 (Abstr.).

Price, W. H., Bacterial viruses. Ann. Rev. Microbiol. 6. 1952, 333—348.

Schramm, G., Eiweißstoffe, Viren und Organismen. Behringwerk-Mitt. H. 25. 1952, 147—159, 6 Abb.

Smith, K. M., Latency in viruses and the production of new virus diseases. Biol. Rev., Cambridge, 27. 1952, 347—357.

b. Virus und Wirtspflanzen
Virus and host plants
Virus et plantes attaquées

Anderson, C. W., Additional notations on the red leaf virus of filaree. Phytopathology 42. 1952, 110—111, 2 fig.

Baldacci, E., Una interpretazione dei processi disgenesici dei virus fitopatogenici. Ricerca sci., Roma, 22. 1952, 471—472.

Bennett, C. W., Recovery of water pimpernel, Samolus parviflorus Raf., from curly top and the reaction of recovered plants to inoculation with different virus strains. Phytopathology 42. 1952, 2 (Abstr.).

Black, L. M., Plant virus tumors. Ann. New York Acad. Sci. 54. 1952, 1067—1075, 2 fig.

Caldwell, J., Some effects of a plant virus on nuclear division. Ann. appl. Biol. 39. 1952, 98—102, 1 tab.

Capoor, S. P., Culture box: a practical divice for collecting, preserving, and transporting virus affected plant materials. Indian J. agric. Sci. 22. 1952, 299—302, 1 fig.

Capoor, S. P., and Varma, P. M., Studies on the »distortion mosaic« virus of Datura inoxia Mill. [Myzus persicae, Aphis gossypii] Indian J. agric. Sci. 22. 1952, 303—314, 2 tab.

Cordón, F. M., Observaciones sobre la influencia del ion Br. en los virus vegetales. Microbiol. espan., Madrid, 5. 1952, 117—125, 1 fig.

Delhaye, R., Les viroses. Courrier hortic., Bruxelles, 14. 1952, 94—95.

De Rezende-Pinto, M. C., et de Lourdes V. Borges, M., L'action pathologique du virus de la mosaïque jaune du navet sur les chloroplastes de Brassica chinensis L. Agron. lusit. (Portugal) 14. 1952, 259—267, 3 tab.

Diachun, St., Interaction between cucumber mosaic and Phytolacca decandra. Phytopathology 42. 1952, 6—7 (Abstr.).

Gayford, G. W., Virus diseases are important. [plants] J. Dept. Agric. Victoria 50. 1952, 81—83.

Goidànich, G., (What is a virus disease?) Inform. Fitopat., Bologna, 2. 1952, 129—136.

Hirata, S., (On the turbidity of pressed-out juices from som virus-infected plants.) Ann. phytopath. Soc. Japan 17. 1952, 21—23, 2 fig.

Hutton, E. M., and Peak, J. W., Definition of potato virus Y strains by some solanaceous species. Austr. J. agric. Res. 3. 1952, nr. 1, p. 1—6, 1 tab.

Kassanis, B., Some effects of high temperature on the susceptibility of plants to infection with viruses. Ann. appl. Biol. 39. 1952, 358—369, 1 tab.

Klett, Was sind eigentlich Viruskrankheiten? Württ. Wochenbl. Landw. 119. 1952, 784—785.

Klinkowski, M., Die »Bohnenwelke« der Phaseolus-Arten, die Bronzefleckenkrankheit der Tomate, die Vergilbungskrankheit und das Gelbnetz-Virus der Rüben. Viruskrankheiten, die bisher in Deutschland unbekannt waren. Dtsch. Landw. 3. 1952, 636—639, 4 Abb.

Klinkowski, M., Die infektiöse Buntblättrigkeit. Gartenwelt 52. 1952, 397—398, 2 Abb.

Kristensen, H. R., (Plants with virus diseases.) Frø og Gart. 17. 1952, 53—57.

Kutsky, R., Effects of the indolebutyric acid and other compounds on virus concentration in plant tissue cultures. Science, Lancaster, 115. 1952, 19.

Limasset, P., Quelques nouveautés sur les méthodes d'extraction de certains virus. Atti Soc. ital. Pat., Milano, 2. 1952, 911—917.

Littau, V. C., and Black, L. M., Spherical inclusions in plant tumors caused by a virus. [Aureogenus magnivena] Amer. J. Bot. 39. 1952, 87—95, 5 fig.

McKinney, H. H., Two strains of tobacco-mosaic virus, one of with is seed-borne in an etch-immune pungent pepper. Plant Dis. Reptr. 36. 1952, 184—187.

Martin, C., Isolement d'une souche du virus Y de la pomme de terre (Marmor upsilon Holmes) à partir du dahlia et de la tomate. Ann. Épiphyties, Paris, 3. 1952, 394.

Nickell, L. G., Tissue-culture studies on plant tumors caused by virus. Bull. Torrey bot. Club 79. 1952, 264—265 (Abstr.).

Nickell, L. G., Vitamin B_1 requirement of Rumex virus tumor tissue. Bull. Torrey bot. Club 79. 1952, 427—430.

Pavillard, J., Recherches sur la croissance des plantes virosées. I. Virus et auxines. II. Influence des facteurs d'environnement. Compt. rend. Acad. Sci., Paris, 235. 1952, 87—88, 1527—1529.

Pushkarnath, Solanum jasminoides virus. Curr. Sci., Bangalore, 21. 1952, 249.

Ramsfjell, T., Virussjukdommer på hagebruksplanter. (Virus diseases of horticultural plants.) Frukt og Baer (Norge) 5. 1952, 44—53, 13 fig.

Roberts, E., and **Ramasarma, G. B.,** Amino acids of turnip yellow mosaic virus. Proc. Soc. exp. Biol Med., New York, 80. 1952, 101—103, 1 fig.

Ross, A. F., Rochow, W. F., and **Siegel, B. M.,** High concentrations of virus X in plants doubly infected with potato viruses X and Y. Phytopathology 42. 1952, 473.

Segrétain, G., Action du lait de coco et de l'acide naphtalène acétique sur la multiplication d'un virus en culture de tissus [Bact. tumefaciens] Compt. rend. Acad. Sci., Paris. 235. 1952, 1342—1344.

Sirmai, I., (A new variety of root virus of seedlings.) Acta agron. hung., Budapestini, 2. 1952, 275—289.

Smith, K. M., Some garden plants susceptible to infection with the cucumber mosaic virus. J. R. hortic. Soc., London, 77. 1952, nr. 1, p. 19—21, 3 tab.

Smits, C., (Viruses and virus diseases.) Tijdschr. nederl. Heidemaatsch 63. 1952, 328—333.

Steere, R. L., Virus increment curves obtained from counts of particles in clarified plant juice. Amer. J. Bot. 39. 1952, 211—220, 5 fig.

Suchow, K. S., (New investigations of virus diseases of plants in Czechoslovakia.) Příroda, Brno, 41. 1952, nr. 5, p. 82—89.

Thung, T. H., Herkenning en genezing van enige virusziekten. (diagnosis and curing of some virus diseases.) Meded. Dir. Tuinbouw 15. 1952, 714—721, 3 fig. (Inst. plantenziektenkdg. Onderz., Wageningen, Medd. nr. 50).

Thung, T. H., The infectivity of viruses. Proc. Conf. Potato Virus Dis., Wageningen-Lisse, 13.—17. 8. 1951. 1952, 76—80, 1 fig. (Lab. Bloembollenonderz. Lisse nr. 94).

Vasudeva, R. S., and **Nariani, T. K.,** Host range of bottlegourd mosaic virus and its inactivation by plant extracts. [Lagenaria leucantha infects Datura stramonium, Nicotiana tabacum, N. tabacum var. White burley, Solanum nigrum, S. nodiflorum] Phytopathology 42. 1952, 149—152.

Weathers, L. G., and **Pound, G. S.,** Relation of host nutrition to the concentration of turnip virus 1 in Nicotiana glutinosa L. and N. multivalvis L. Phytopathology 42. 1952, 477.

Weaver, E. P., and **Price, W. C.,** Differentiation of tobacco mosaic virus strains by complement fixation. Proc. Soc. exp. Biol., Med., New York, 79. 1952, 125—127.

Weber, F., Gibt es Virus-Träger unter den Kakteen? Ber. dtsch. bot. Ges. 65. 1952, 319—320.

Weintraub, M., and **Gilpatrick, J. D.,** An inhibitor in a new host of tobacco ring spot virus. [Dianthus] Canad. J. Bot. 30. 1952, 549—557, 1 tab.

Weintraub, M., Gilpatrick, J. D., and **Willison, R. S.,** The effect of certain water-soluble compounds on virus infection. Phytopathology 42. 1952, 417—419.

Wilkinson, J., The effects of »aspermy« virus upon nuclear behaviour in certain solanaceous plants. Proc. Soc. Study Fertil., Cambridge, 4. 1952, 53—54.

Wilkinson, R. E., Woody plant hosts of the tobacco ring-spot virus. [Annulus tabaci] Phytopathology 42. 1952, 478.

Yarwood, C. E., Latent period and generation time for two plant viruses. Amer. J. Bot. 39. 1952, 613—618, 2 fig.

Yarwood, C. E., Some relations of carbohydrate level of the host to plant virus infections. Amer. J. Bot. 39. 1952, 119—124, 4 fig.

Zachos, D. G., Catalogue commenté des champignons et virus rencontrés sur les plantes cultivées en Grèce. Ann. Inst. phytopath. Benaki 6. 1952, 88—90.

The virus menace. Gard.' Chron., London, 131 (3. ser.). 1952, 213.

Virusziekten. (Virus diseases.) Landbouw 14. 1952, 104 p.

c. Identifizierung, Mikroskopie und Reinigung
Identification, microscopy and purification
Identification, microscopie et purification

Bode, O., und **Köhler, E.,** Elektronenmikroskopische Untersuchungen am Kartoffel-X- und Tabakmosaik-Virus. Ztschr. Naturforsch. 70. 1952, 598—600.

Epstein, H. T., and **Lauffer, M. A.,** Ultracentrifugal identification of infectious entities with characteristic particles. Arch. Biochem., New York, 36. 1952, 371—382.

Gray, R. A., The electrophoresis and chromatography of plant viruses on filter paper. Arch. Biochem., New York, 38. 1952, 305—316.

Huertos, M. R., Nuevo metodo para determinar los sintomas precoces de virosis en las plantas. Microbiol. espan., Madrid, 5. 1952, 149—152, 6 fig.

Jensen, J. H., Identification of virus infection in plant tissue. Ann. Rev. Microbiol. 6. 1952, 139—150.

Kobel, F., Use of the Williams-Backus method for determination of virus concentration in plant tissue cultures. Phytopathology 42. 1952, 515—516 (Abstr.).

Köhler, E., Elektronenmikroskopische Untersuchungen über Kartoffel-Virus X. Proc. Conf. Potato Virus Dis., Wageningen-Lisse, 13.—17. 8. 1951. 1952, 81—82, 1 fig. (Lab. Bloembollenonderz. Lisse nr. 94).

Larson, R. H., Stahmann, M. A., Walker, J. C., and **Colburn, R. W.,** Mutations of potato virus X induced by nitrogen mustard. Phytopathology 42. 1952, 25 (Abstr.).

Littau, V. C., and **Black, L. M.,** Spherical inclusions in plant tumors caused by a virus. Amer. J. Bot. 39. 1952, 87—95, 5 fig.

Pardee, A. B., and **Schwerdt, C. E.,** A simplified method of determining the sizes of viruses in impure preparations. Arch. Biochem., New York, 40. 1952, 381—389.

Rawlins, T. E., and **Takahashi, W. N.,** Technics of plant histochemistry and virology. Nat. Press, Millbrae (Calif.) 1952. IX+125 p., 9 fig.

Senseney, C. A., Desjardins, P. R., and **Hess, G. E.,** Electron microscope studies of purified tobacco ring spot virus. Phytopathology 42. 1952, 343—344.

Sharp, D. G., and **Beard, J. W.,** Counts of virus particles by sedimentation on agar and electron micrography. Proc. Soc. exp. Biol., Med., New York, 81. 1952, 75—79.

Sill jr., W. H., Burger, W. C., Stahmann, M. A., and **Walker, J. C.,** Electron microscopy of cucumber virus 1. Phytopathology 42. 1952, 420—422, 2 fig.

Steere, R. L., Virus increment curves obtained from counts of particles in clarified plant juice. Amer. J. Bot. 39. 1952, 211—220, 5 fig.

Van Slogteren, E., The role of the electron microscope in the investigation of plant diseases. Philips techn. Rev. (Nederland) 14. 1952, nr. 1, p. 13—20, 6 fig.

Weaver, E. P., and **Price, W. C.,** Differentiation of tobacco mosaic virus strains by complement fixation. Proc. Soc. exp. Biol., Med., New York, 79. 1952, 125—127.

Weber, F., and **Kenda, G.,** Cactaceen-Virus-Eiweißspindeln. Protoplasma 41. 1952, 111—120.

Williams, R. C., High-resolution electron microscopy of the particles of tobacco mosaic virus. Biochim., biophys. Acta 8. 1952, 227—244.

Zeller, A., und **Fößleitner-Karl, H.,** Virusnachweis durch Formoltitration? Veröff. Bundesanst. alp. Landw. Admont H. 6. 1952, 138—149, 11 Abb.

d. Chemische und physikalische Eigenschaften
Chemical and physical properties
Caractères chimiques et physiques

Commoner, B., and **Dietz, P. M.,** Changes in nonprotein nitrogen metabolism during tobacco mosaic virus biosynthesis. J. gen. Physiol. 35. 1952, 847—856, 4 fig.

Fraser, R. D. B., Infra-red dichroism of tobacco mosaic virus nucleoprotein. Nature, London, 170. 1952, 491, 1 fig.

Harris, J. I., and **Knight, C. A.,** Action of carboxypeptidase on tobacco mosaic virus. Nature, London, 170. 1952, 613—614, 2 fig.

Joly, M., Modifications des particules de virus de la mosaïque du tabac en solution; étude par la biréfringence d'écoulement. I. Action de divers agents physiques. II. Action de divers agents chimiques. Biochim., biophys. Acta 8. 1952, 134—144, 245—256.

Knight, C. A., The nucleic acids of some strains of tobacco mosaic virus. J. biol. Chem. 197. 1952, 241—249.

Kozloff, L. M., Biochemical studies of virus reproduction. VII. The appearance of parent nitrogen and phosphorus in the progeny. J. biol. Chem. 194. 1952, 95—108.

Lauffer, M. A., Form and function: a problem in biophysics. [virus disease] Sci. Mon., New York, 75. 1952, 79—83, 3 fig.

Siegel, A., and **Wildman, S. G.,** The differential sensitivity of two strains of tobacco mosaic virus to ultraviolet light. Genetics 37. 1952, 624—625 (Abstr.).

Suchow, K. S., (On reproduction condition of virus nucleoproteides in plant cells.) Trudy Akad. Nauk SSSR., Inst. Genet., 19. 1952, 222—239.

Yarwood, C. E., Deleterious action of water in plant virus inoculations. Nature, London, 169. 1952, 502.

e. Serologische Reaktion
Serological reaction
Réaction sérologique

Jermoljev, E., Identification of plant viruses by the use of serological methods of complement fixation. Sborník českosl. Akad. Zeměd. (Ann. Acad. tchécosl. Agric.), Praha, 25. 1952, 211—218.

Limasset, P., Le contrôle sérologique en 1951. Pomme Terre franç. 15. 1952, nr. 153, p. 3—5.

Limasset, P., Quelques remarques sur l'utilisation de la réaction de fixation du complément pour l'étude des maladies à virus des plantes. Ann. Épiphyties, Paris, 3. 1952, 83—101.

Moorhead, E. L., and Price, W. C., A new serological test for tobacco mosaic virus. Phytopathology 42. 1952, 471.

Pollard, E., and Dimond, A. E., Effect of deuteron bombardment on the serology of tobacco mosaic virus. Physiol. Rev., Baltimore, 86 (ser. 2). 1952, 612.

Pollard, E. C., and Dimond, A. E., Constitution of two plant viruses as suggested by effects of deuteron bombardment on their infectivity and serology. Phytopathology 42. 1952, 472.

Van Slogteren, D. H. M., The preparation of antisera against carnation mosaic virus. Publ. Lab. Bloembollenonderz. Lisse nr. 94. 1952, 88—89.

Van Slogteren, E., The serological diagnosis of plant diseases caused by viruses. 13th int. hortic. Congr., London, Mimeogr. Pap. 1952, 5 p.

Zaitlin, M., Schechtman, A. M., Bald, J. G., and Wildman, S. G., Rapid serological detection of virus in Cattleya orchids. Phytopathology 42. 1952, 478.

f. Übertragung
Transmission — Transmission

Beraha, L., and Thornberry, H. H., Effect of carborundum on infectivity of tobacco mosaic virus. Phytopathology 42. 1952, 2 (Abstr.).

Black, L. M., and Brakke, M. K., Multiplication of wound-tumor virus in an insect vector. [Agallia constricta] Phytopathology 42. 1952, 269—273, 2 fig.

Broadbent, L., The epidemiology of aphid-borne virus diseases. Trans. IXth int. Congr. Ent., Amsterdam, 1 (1951). 1952, 619—622.

Christenson, L. D., and Smith, F. F., Insects and the plant viruses. US Dept. Agric. Yearb. Agric. 1952, 179—190, 4 fig.

De Fluiter, H. J., (Insects as vectors of plant viruses.) Landbouw (Dir. Landbouw, Nederl.) 14. 1952, 36—47.

Heie, O., Forløbig meddelese om undersøgelser over ferskenlusens overvintring i Danmark. Nielsen & Lydiche, København 1952.

Heinze, K., Virusübertragungsversuche mit Blattläusen auf Dahlien, Gurken, Zwiebeln, Wasserrüben und einigen anderen Pflanzen. Ztschr. Pfl.krankh. 59. 1952, 3—12, 5 Abb.

Helson, G. A. H., The insect transmission of plant virus diseases. New Zealand R. Soc. Sci. Congr. Rept. 7 (1951). 1952, 86 (Abstr.).

Kaloostian, G. H., and Nielson, M. W., Leafhoppers [Colladonus geminatus] found to transmit western X-disease virus. Farm, Home Sci. (Utah Stat.) 13. 1952, 12—13.

Kirkpatrick, H. C., and Ross, A. F., Aphid-transmission of potato leafroll virus to solanaceous species. [Corium solani) Phytopathology 42. 1952, 540—546.

Kunkel, L. O., Transmission of alfalfa witch's broom to nonleguminous plants by dodder, and cure in periwinkle by heat. Phytopathology 42. 1952, 27—31, 5 fig.

Lihnell, D., Marking aphids with radioactive phosphorus, P. 32. [Myzus persicae, Aphis fabae] Proc. Conf. Potato Virus Dis., Wageningen-Lisse, 13.—17. 8. 1951. 1952, 14—22, 4 fig. (Lab. Bloembollenonderz. Lisse nr. 94).

Maramorosch, K., Inability of aster-yellows and corn-stunt viruses to multiply in each other's vectors. Phytopathology 42. 1952, 113 (Abstr.).

Maramorosch, K., Recovery of aster-yellows and corn-stunt viruses from nonvector leafhoppers. Phytopathology 42. 1952, 470.

Maramorosch, K., Studies on the nature of the specific transmission of aster-yellows and corn-stunt viruses. Phytopathology 42. 1952, 663—668.

Morgan, O. D., Transmission of a tobacco leaf curl to other hosts. Phytopathology 42. 1952, 343.

Roberts, D. A., Independent translocation of sap-transmissible viruses. Phytopathology 42. 1952, 381—387, 2 fig.

Shenefelt, R. D., Insects as carriers of tree diseases. Amer. Nurseryman, Rochester, 96. 1952, 24, 116—123. — Trees, Cleveland, 12. 1952, nr. 4, p. 6—7, 18, 20, 22.

Silberschmidt, K. M., (The study of spontaneous transmission of virus diseases.) Ceres (Minas Gerães) 9. 1952, nr. 49, p. 1—10.

Walters, H. J., Some relationships of three plant viruses to the differential grasshopper, Melanoplus differentialis (Thos.). Phytopathology 42. 1952, 355—362, 1 fig.

Yarwood, C. E., The phosphate effect in plant virus inoculations. Phytopathology 42. 1952, 137—143, 4 fig.

Zech, H., Untersuchungen über den Infektionsvorgang und die Wanderung des Tabakmosaikvirus im Pflanzenkörper. Planta 40. 1952, 461—514, 18 Abb.

g. Bekämpfung, Inaktivierung und Desinfektion
Control measures, inaction and disinfection
Lutte contre les maladies à virus, inactivation et désinfection

Brock, R. D., The use of trisodium phosphate as an inactivating agent for plant viruses. J. austr. Inst. agric. Sci. 18. 1952, 41—43.

Commoner, B., and **Mercer, F. L.,** The effect of thiouracil on the rate of tobacco mosaic virus biosynthesis. Arch. Biochem., New York, 35. 1952, 278—289.

Fischer, G., Présence de substances antivirotiques dans différentes parties de plantes. Ann. Inst. Pasteur, Paris, 82. 1952, 119—120.

Gupta, B. M., and **Price, W. C.,** Mechanism of inhibition of plant virus infection by fungal growth products. Phytopathology 42. 1952, 45—51, 2 fig.

Jensen, J. H., Growers need seedsmen's help on virus disease control and identification. Progress is being made in resistant varieties of oats, barley, tobacco. South. Seedsman (Texas) 15. 1952, nr. 2, p. 36, 83.

Kassanis, B., The control of plant viruses by therapeutic methods. Proc. Conf. Potato Virus Dis., Wageningen-Lisse, 13.—17. 8. 1951. 1952, 48—50. (Lab. Bloembollenonderz. Lisse nr. 94.)

Nichols, C. W., The inhibition of tobacco mosaic symptoms by application of certain plant hormones. Phytopathology 42. 1952, 517 (Abstr.).

Nichols, C. W., The retarding effect of certain plant hormones on tobacco mosaic symptoms. Phytopathology 42. 1952, 579—580.

Nichols, C. W., and **Nyland, G.,** Hot water treatments of some stone fruit viruses. Phytopathology 42. 1952, 517 (Abstr.).

Slagle, C. W., Wolcyrz, S., and **Price, W. C.,** Inhibition of plant virus infection by growth products of Neurospora. Phytopathology 42. 1952, 240—244.

Weintraub, M., and **Gilpatrick, J. D.,** An inhibitor in a new host of tobacco ringspot virus. Canad. J. Bot. 30. 1952, 549—557.

h. Nomenklatur
Nomenclature — Nomenclature

Andrewes, C. H., Classification and nomenclature of viruses. Ann. Rev. Microbiol. 6. 1952, 119—138.

Ryschkow, W. L., (Die Systematik der Viren in der modernen Literatur.) Mikrobiologiia, Moskwa, 21. 1952, 458—476.

III. Krankheiten und Wirtspflanzen
Diseases and host plants — Maladies et plantes attaquées

1. Vegetation und Kulturpflanzen im allgemeinen
Übersicht über das Auftreten von Pflanzenkrankheiten und Schädlingen
Vegetation and cultivated plants in general
Survey of the incidence of plant diseases and parasites
Végétation et plantes cultivées en général
Résumé de la fréquence des maladies végétales et de leurs parasites

a. Übersichten
Surveys — Résumés

Akdoğan, S., Türkiyede ilk defa tesbit edilen hastaliklar. (Zum ersten Mal in der Türkei festgestellte Krankheiten.) Tomurcuk, Istanbul, 1952, nr. 1, p. 6—7.

Allison, J. L., Diseases of economic plants in Iraq. FAO Plant Prot. Bull. 1. 1952, 9—11.

Allison, J. L., Iraq: Outbreaks and new records. FAO Plant Prot. Bull. 1. 1952, 44.

Arsić, M., and **Džodić, M.,** (Maladies des plantes constatées dans la région de Kopaonik et Aleksandrovac (Serbie) en 1951.) Plant Prot., Beograd, nr. 9. 1952, 31—34.

Ayoutantis, A. J., Kortzas, C. B., et **Pélécassis, E. D.,** Rapport sommaire sur les insectes et autres animaux nuisibles observés en Grèce en 1951. Ann. Inst. phytopath. Benaki 6. 1952, 10—13.

Baldacci, E., (Epidemic and climatic diseases at the experimental center of Cassino Po.) Humus, Milano, 8. 1952, nr. 1, p. 9—12.

Bazán de Segura, C., El problema de los plátanos en Tingo Maria. [diseases] Mensajero agríc. (Perú) 77. 1952, 50—52.

Bernaux, P., Contribution à l'étude de la pathologie végétale méditerranéenne. Rev. Mycol., Paris, 17. 1952, 109—140, 2 tab.

Blair, I. D., Disease avoidance and crop rotation. Canterbury Chamber Commerce (New Zealand) Agric. Bull. nr. 272. 1952, 4 p.

Blair, I. D., Disease in farm and garden seeds. Canterbury Chamber Commerce (New Zealand) Agric. Bull. nr. 271. 1952, 7 p.

Bovien, P., Animal pests. Tidsskr. Planteavl, København, 55. 1952, 73—80.

Bovien, P., New attacks of animal pests. Tidsskr. Planteavl, København, 55. 1952, 80—81.

Bouriquet, G., La défense des cultures dans les territoires français d'outre-mer. Phytoma, Paris, 5. 1952, nr. 40, p. 23—29, 8 fig.

Bremer, H., ve **Özkan, M.,** Türkiye kültür bitkilerinde tabiat şartlarının sebep olduğu patolojik problemler. (Durch die Natur des Landes bedingte Probleme aus der Pathologie der landwirtschaftlichen Kulturpflanzen in der Türkei.) Bitki Koruma Bülteni (Bull. Plant Prot.), Ankara, 1952, nr. 3, p. 3—13. — Path. gén. (Rev. Path. comp. Hyg.), Paris, nr. 640. 1952, 463—471.

Briscoe, M. S., The relation of insects and insect-borne diseases to the vegetation and environment in Liberia. Ecology 33. 1952, 187—214.

Chevaugeon, J., Maladies des plantes cultivées en Moyenne-Casamance et dans le Delta Central Nigérien. Rev. Path. vég., Ent. agric. France 31. 1952, 3—51, 4 tab.

Conners, I. L., Canada: Outbreaks and new records. FAO Plant Prot. Bull. 1. 1952, 43.

Conners, I. L., Some notes on the observation of plant diseases. Proc. canad. phytopath. Soc. nr. 20. 1952, 14—15 (Abstr.).

Čuturilo, St., Insect pests and plant diseases on the territory of the peoples republic of Serbia in 1951. Saschtita Bilja (Plant Prot.), Beograd, nr. 11. 1952, 21—42.

Davis, J. E., Plant pest and disease surveys. Agric. Bull. Oregon Dept. Agric. 174. 1952, 7—8.

De la Barreda, L., Manera de identificar las plagas y enfermedades de las plantas de cultivo. Campo, Tacuba, 20 (ser. 2). 1952, nr. 724, p. 4, 6, 8, 10—12, 14, 16—20, 22—23.

De Wilde de Ligny, H. J., Netherlands New Guinea: Outbreaks and new record, July-August, 1952. FAO Plant Prot. Bull. 1. 1952, 29.

Dyer, R. A., Botany and plant pathology. Farming South Afr. 27. 1952, 601—603.

Dyer, R. A., Plant diseases. Farming South Afr. 27. 1952, 179—180.

Eichler, W., Auffällige Schädlingsvorkommen in Mitteldeutschland (1949). Anz. Schädl.kunde 25. 1952, 5—7.

Fujioka, Y., List of crop diseases in Japan. Prelim. Study nat. Resources Div., G. H. Q. Supr. Commander allied Powers, Tokyo, vol. 1—2. 1952, nr. 73, 212 p.

Ghillini, C. A., Elenco dei principali casi fitopatologici osservati nel 1951. Not. Mal. Piante nr. 18. 1952, 31—36.

Ghillini, C. A., e **Mezzini, L.,** Elenco dei principali casi fitopatologici riscontrati dal 1° Gennaio al 31 Ottobre 1952. (Survey of the most interesting diseases found from January the lst to Oct. 31, 1952.) Not. Mal. Piante nr. 20. 1952, 29—32.

Gilbert, F. A., Battelle research aids market gardeners; projects at Columbus, Ohio, turn up new findings on insect, disease control, soil and plant improvement. Market Growers' J., Louisville (Kentucky), 81. 1952, 18, 45.

Göbelez, M., Kuzey Türkiye bitkilerinde 1952 yılında rastlanılan hastalıkar. (Diseases encountered on plants in north Turkey in 1952.) Bitki Koruma Bült. (Bull. Plant Prot.), Ankara, 1952, nr. 4, p. 23—25.

Harris, R. V., Plant pathology. East Malling Res. Stat. Ann. Rept. 1951 (39). 1952, 40—42.

Harrison, A. L., Plant disease notes from Texas. Plant Dis. Reptr. 36. 1952, 491.

Hoffmann, A., Répertoire analytique des espèces animales nuisibles aux cultures en France (Métropole et Départements d'outre-mer) ayant présenté d'intéressantes particularités en 1950. Ann. Epiphyties, Paris, 3. 1952, 103—109.

Houtman, G., Voorkoming van ziekten in de zaadteelt. Tuinbouwgids, Den Haag, 1952, 582—583.

Jugenheimer, R. W., Italy and Switzerland: Outbreaks and new records. FAO Plant Prot. Bull. 1. 1952, 44.

Klemm, M., Das Auftreten der wichtigsten Krankheiten und Schädlinge der Kulturpflanzen im Bereich der DDR im April, Mai, Juni, Juli, August und September 1952. Nachr.bl. dtsch. Pfl.schutzd., Berlin, NF. 6. 1952, 130—132, 2 Landkarten; 149—151, 3 Landkarten; 171—174, 3 Landkarten; 197—199, 3 Landkarten; 233—235, 2 Landkarten.

Klemm, M., Das Auftreten der wichtigsten Krankheiten und Schädlinge der Kulturpflanzen im Jahre 1950 im Bereich der Deutschen Demokratischen Republik. Nachr.bl. dtsch. Pfl.schutzd., Berlin, NF. 6. 1952, Sdr.-H., 40 S., 1 Abb., 73 Landkarten.

Klemm, M., Auftreten der wichtigsten Krankheiten und Schädlinge im Bereich der DDR in der Zeit vom 1. Oktober 1951 bis einschließlich März 1952. Nachr.-bl. dtsch. Pfl.schutzd., Berlin, NF. 6. 1952, 116—118, 4 Landkarten.

Kristensen, H. R., Troelsen-Johansen, G., and **Weber, A.,** New attacks of plant diseases. Tidsskr. Planteavl, København, 55. 1952, 71—72.

Lindfors, T., (Plant protection.) [diseases and pests] Svensk Jordbr. forskn., Stockholm, Årsbok 1952, 149—158.

Luchetti, G., Rassegna dei principali casi fitopatologici osservati nel Ferrarese nel quadriennio 1948—1951. Not. Mal. Piante nr. 19. 1952, 59—76.

McKay, R., Loughnane, J. B., and **Barry, P. J.,** Observations on plant diseases in 1951. Journal, Dept. Agric. Éire, 48 (1951). 1952, 184—192, 1 tab.

Magee, C. J., Disease survey in Papua/New Guinea. Austr. Plant Dis. Recorder 4. 1952, 25—26.

Marchionatto, J. B., Influencia de las prácticas culturales en las enfermedades de las plantas. Almanaque Minist. Agric., Buenos Aires, 26/27. 1951/1952, 86—87.

Mattos, R. A., Enfermedades de las plantas cultivadas en el Chaco Austral. IDIA (Inform. Invest. agric.), Buenos Aires, 5. 1952, nr. 55, p. 11—15.

Miller, P. R., Plant disease situation in the United States. FAO Plant Prot. Bull. 1. 1952, 17—18, 36—37.

Miller, P. R., and **O'Brien, M.,** Plant disease forecasting. Bot. Rev., Lancaster (Pennsylv.), 18. 1952, 547—601.

Muller, A. S., Plant disease records at Zamorano, Honduras, 1950—1952. Ceiba (Honduras) 3. 1952, 85—91.

Nance, N. W., Some new or unusual records and outstanding features of plant disease development in the United States in 1951. Plant Dis. Reptr. Suppl. 214. 1952, 142—162.

Neves, C. M. B., (On the latest contributions to the study of the chief entomological problems in Portuguese agriculture.) Agros, Lisboa, 35. 1952, 286—299.

Newton, H. C. F., Notes on pests of 1952. [chiefly insect pests and their control] Herefordshire agric. J. (Engl.) 13. 1952, 21, 23, 25, 27, 29.

Pollanetz, Mißernte und Schädlingsplage. Illustr. Flora, Wien, 75. 1952, 125—126.

Reinmuth, E., Pflanzenkrankheiten und Pflanzenschädlinge. Wege zu ihrer Bekämpfung. Aufbau-Verlag, Berlin 1952. 100 S., 46 Abb.

Riley, C. G., Diseases of trees in Saskatchewan. Saskatchewan Univ. Addr., Proc. (Univ. Saskatchewan Farm Week) 1952, 55—58.

Roberts, D. A., Sherwood, R. T., and **Fezer, K. D.,** Diseases of forage crops in New York, 1952. Plant Dis. Reptr. 36. 1952, 416—418.

Rui, D., (Survey of plant pathology.) Agric. vicent., Vicenza, 82. 1952, nr. 17, p. 3.

Russel, J., Wastage of world food supplies through pests and diseases. Int. Conf. 26.—28. June 1951 (Fernhurst Res. Stat. London, Plant Prot. Ltd.). 1952, 13—25.

Sarejanni, J. A., Démétriadès, S. E., et **Zachos, D. G.,** Rapport sommaire sur les principales maladies des plantes observées en Grèce au cours de l'année 1951. Ann. Inst. phytopath. Benaki 6. 1952, 1—9.

Schreier, O., Das Auftreten wichtiger Krankheiten und Schädlinge an Kulturpflanzen in Österreich im Jahre 1951. Pflanzenschutzberichte, Wien, 8. 1952, 15—21.

Sibilia, C., Rassegna dei casi fitopatologici più notevoli osservati nel 1949. (Report of most note-worthy disease observed in 1949.) Boll. Staz. Pat. veg., Roma, 8 (1950). 1952, 261—294.

Standen, J. H., Host index of plant pathogens of Venezuela. Plant Dis. Reptr. Suppl. 212. 1952, 59—106.

Stockdale, A., Lista de plagas agrícolas, con nombres en español, inglés y latin, que atacan a los arboles y plantaciones en general. Mexico, D. F., 1952. 31 p.

Tadić, R. M., An epidemiological investigation of a rural district in Yugoslavia. Bull. World Health Org., Geneva, 7. 1952, 431—444.

Tisdale, W. B., What's new in plant pathology. Plant Dis. Reptr. 36. 1952, 208—210.

Viennot-Bourgin, G., Notes de pathologie végétale (année 1951). Ann. Épiphyties, Paris, 3. 1952, 527—533, 5 fig.

Weiss, F., Index of plant diseases in the United States. US Dept. Agric., Plant Dis. Surv., Pt. I-IV, Beltsville (Md.) 1950—1952. 806 p.

Williams, P. H., Ebben, M. H., Hack, J., Read, W. H., Smith, R. J., Howles, R., Owen, O., Messing, J. H. L., and **Massey, D. M.,** Plant diseases. Chemical investigations. Growers' notes. Cheshunt (Herts.) Exp. Res. Stat. Ann. Rept. 1951. 1952, 22—40, 78—83, 85—87, 3 fig., 4 tab.

Young, P. A., Diseases of tomato, pepper, squash, okra and cotton observed in west Texas. Plant Dis. Reptr. 36. 1952, 390.

Zwartendijk, J., Voorkoming van ziekten in de boomkwekerij. Tuinbouwgids, Den Haag, 1952, 493.

Diseases in the Minnesota-Iowa-Missouri area. Soybean Digest 12. 1952, nr. 9, p. 15.

List of intercepted plant pests, 1951. US Dept. Agric. Bur. Ent., Plant Quar., Serv. regul. Announc., 1952, 61 p.

Månedsoversigt over plantesygdomme. Stat. plantepat. Forsøg, København, 1952, nr. 323, 324, 325, 326, 327, 328, 329.

New South Wales: New plant diseases. Agric. Gaz. New South Wales 63. 1952, 89.

Plantesygdomme i Danmark 1949. Årsoversigt samlet ved Statens plantepatologiske Forsøg, Lyngby. (Plant diseases and pests in Denmark 1949.) Tidsskr. Planteavl, København, 55. 1952, 1—70, 2 fig.

Contributions spéciales des Stations [fédérales d'essais agricoles de Mont-Calme et Montagibert, Lausanne et Pully] à la défense contre les maladies et les ravageurs des végétaux. (In: Rapport d'activité 1951.) Ann. agric. Suisse 53 (n. ser. 1). 1952, 1003—1028, 12 fig.

La **situation phytosanitaire** en France au cours du mois. Phytoma, Paris, 1952, nr. 34, p. 25; nr. 35, p. 23—24, 1 tab. geogr.; nr. 36, p. 24; nr. 37, p. 21—22; nr. 38, p. 25—26; nr. 39, p. 23—25; nr. 41, p. 26—27; nr. 42, p. 22—23; nr. 43, p. 27—28.

Some diseases and pests in field crops in 1950 and their control. Veenman, Wageningen 1952. 120 p.

Survey of the most important diseases and pests of field crops and their control. Veenman, Wageningen 1952. 175 p., 8. ed.

Tuinbouwgids 1952. [ziekten en schadelijke dieren] Dir. Landbouw, Afd. Tuinbouw, Den Haag 1952. Jaarg. 9, 693 p., fig.

Ziekten en plagen in verschillende talen. Tuinbouwgids, Den Haag, 1952, 272—277.

b. Einzelne Gruppen von Krankheiten und Schädlingen
Single groups of diseases and parasites
Groupes spéciaux de maladies et de parasites

Briscoe, M. S., The relation of insects and insect-borne diseases to the vegetation and environment in Liberia. Ecology 33. 1952, 187—214.

Butcher, F. G., Some observations on various insects found on fruit and ornamentals in the Miami area. Proc. Florida State hortic. Soc. 64 (1951). 1952, 251—254.

Bytinski-Salz, H., Two important tree borers in Israel. FAO Plant Prot. Bull. 1. 1952, 38—39.

Ciccarone, A., Note fitopatologiche. III. Osservazioni intorno ad epifizie die Peronospora pisi (de By.) Syd. nel Casertano. (Phytopathological notes. III. Observations on the presence of Peronospora pisi (de By.) Syd. in the provence of Caserta.) IV. Osservazioni su Cercospora ariminensis Cav. (Notes on Cercospora ariminensis Cav.) V. Una »necrosi apicale« delle mele. (Notes on a »black end« of apples.) Ann. Sperim. agr., Roma, 6(n. ser.). 1952, 1065—1067, 5 fig.; 1069—1072, 2 fig.; 1073—1076, 3 fig.

Coda, T., Plant health situation in alarm. [insect pests in Italy] Mondo agric. (Italia) 3. 1952, nr. 11, p. 3.

Cormack, M. W., Control of snow mold of forage crops in Alberta. Phytopathology 42. 1952, 5 (Abstr.).

Cormack, M. W., Winter crown rot or snow mould of alfalfa, clovers, and grasses in Alberta. II. Field studies on host and varietal resistance and other factors related to control. Canad. J. Bot. 30. 1952, 537—548, 1 tab.

Dahms, R. G., Small-grain insect conditions in Texas, Oklahoma, and Kansas, August to November, 1951. US Bur. Ent., Plant Quar. coop. econ. Insect Rept. (Spec. Rept.) 1. 1952, nr. 2, 4 p.

Fenton, F. A., Field crop insects. MacMillan Comp., New York 1952. IX + 405 p., 224 fig.

Figueroa P., A., Catalogo de los artropodos de las clases arachnida e insecta encontrados en el hombre, los animales y las plantas de la Republica de Colombia — I, II, III. Acta agron. (Colombia) 2. 1952, 127—139, 199—223.

Gram, E., and **Weber, A.,** Plant diseases in orchard, nursery and garden crops. Macdonald & Co., Ltd., London 1952. 618 p., 349 fig., 10 tab. col.

Haeussler, G. J., and **Leiby, R. W.,** Surveys of insect pests. US Dept. Agric. Yearb. Agric. 1952, 444—449, 1 fig.

Helson, G. A. H., Diseases of horticultural crops and plants in New Zealand. New Zealand Dept. Agric., hortic. Div., Circ. 1. 1952, 30 p.

Hoffmann, A., Répertoire analytique des espèces animales, nuisibles aux cultures en France (métropole et départements d'outre-mer) ayant présenté d'intéressantes particularités en 1951. Ann. Épiphyties, Paris, 3. 1952, 398—404.

Hyde, G. E., Pests of garden and forest. Country Life, London, 111. 1952, 989.

Jagoe, R. B., Notes on current investigations, October to December, 1951. [fungi] Malayan agric. J. 35. 1952, nr. 1, p. 36—52.

Jannone, G., Studi e ricerche di entomologia agraria in Eritrea e in Etiopia. VIII. Stato fitopatologico delle colture in un'azienda agraria del territorio di Fadis (Harar, Etiopia) con particolare riguardo a un'infestazione affidica del »Suff« (Carthamus tinctorius). (Studies and researches in agricultural entomology in Eritrea and Abyssinia. VIII. The phytopathological condition of the crops on an agricultural estate in the territory of Fadis (Harar, Abyssinia) with special reference to an aphid infestation of »Suff« (Carthamus tinctorius).) Riv. Agric. subtrop., trop., Firenze, 46. 1952, 132—137.

Leach, J. G., Insects, bacteria, and fungi. US Dept. Agric. Yearb. Agric. 1952, 191—196, 1 fig.

Linnavuori, R., (Records of Hemiptera from the province of Savo, E. Finland.) Suomen Hyonteistiet. Aikakausk. (Ann. ent. fenn.), Helsinki, 18. 1952, 64—75.

McCoy, C. E., and **Brindley, T. A.,** Those four-spotted bugs .... friend or foe? Iowa Farm Sci. 6. 1952, nr. 11.

McNay, C. G., Summary of important insect infestations, occurrences, and damage in Canada in 1952. Canad. Insect Pest Rev. 30. 1952, 297—341.

McNay, C. G., Summary of the more important insect infestations and occurrences in Canada in 1951. Ontario ent. Soc. Ann. Rept. 82 (1951). 1952, 91—115.

Marcovich, S., Observations on insect pests in Israel. FAO Plant Prot. Bull. 1. 1952, 25—26.

Massee, A. M., Notes on some interesting insects observed in 1951. East Malling Res. Stat. Ann. Rept. 39 (1951). 1952, 155—161.

Melis, A., Elenco delle principali specie di insetti che hanno prodotto infestazioni degne die nota in Italia durante gli anni 1947, 1949, 1951. »Redia«, Giorn. Ent., Firenze, 32. 1947, XXV—XXX; 34. 1949, XIX—XXXII; 37. 1952, XVII—XXXIV.

Millaud, R., Insects parasites des plantes utiles des établissements français de l'Océanie. Agron. trop., Nogent-sur-Marne, 7. 1952, 589—599.

Popham, W. L., Insects in relation to southern agriculture. US Bur. Ent., Plant Quar., Washington 1952. 5 p.

Siang, W. N., Host index to non-fungus diseases of plants in China. Plant Dis. Reptr. Suppl. 215. 1952, 165—186.

Swain, R. B., Insect problems in Nicaragua. FAO Plant Prot. Bull. 1. 1952, 27—28.

Van Rossem, G., (Report on the occurrence of some insect pests in 1950.) Tijdschr. Ent., Amsterdam, 95. 1952, 2—11.

Distribution maps of insect pests. Commonw. Inst. Ent., London, Ser. A, Maps nr. 1—12. 1951; Maps nr. 13—24. 1952, each 2 p., 1 tab. geogr.

Distribution maps of plant diseases. [fungi] Commonw. mycol. Inst., Kew, Maps nr. 241—264. 1952, each 2 p., 1 tab. geogr.

Insect pest survey for the year ending 30th June, 1951. New South Wales Dept. Agric., Div. Sci. Serv., ent. Branch, 1952, 43 p.

1951 yılında yurdumuzun muhtelif bölgelerinden enstitümüze gönderilen çekirgelerin teşhis neticeleri. Bitki Koruma Bülteni (Bull. Plant Prot.), Ankara, 1952, nr. 2, p. 33—41.

New or uncommon plant diseases in England and Wales. Plant Path., London, 1. 1952, 101—102.

New South Wales: Insect pests. Agric. Gaz. New South Wales 63. 1952, 93—96.

Plant diseases. Agric. Gaz. New South Wales 63. 1952, 261—264, 5 fig.; 320—325, 11 fig.; 494—497, 4 fig.

Preliminary reports of some of the disease and pest problems of Kenaf, Hibiscus cannabinus L., in South Florida. Plant Dis. Reptr. 36. 1952, 121—126, 4 fig.

2. Getreide
Cereals — Céréales

a. Allgemeiner Teil
General part — Partie générale

Baldacci, E., (Diseases of our rice fields.) Riso (Italia) 1. 1952, nr. 1, p. 13—14.

Bonne, K., Fußkrankheiten und Fruchtfolge: Zum Bestellungsplan 1952/53. Bauernbl. Schlesw.-Holst. 6./102. 1952, 1058—1059.

Chiappelli, R., (Parasites and germination.) Riso (Italia) 1. 1952, nr. 3, p. 20.

Christensen, J. J., What's new in barley diseases? Grain, Feed J.'s consolid. 108. 1952, nr. 5, p. 27.

Crabb, R., Keep corn healthy. Successful Farming (Iowa) 50. 1952, nr. 6, p. 42—43, 84, 86.

Divjaković, J., (Supplemental spraying of corn — an important agrotechnical measure.) Vojvodanski Poljoprivrednik (Yugoslavia) 8. 1952, nr. 12, p. 4—5.

Francke, A., Fehler und Mängel beim Grünlandumbruch zur Ackernutzung. Mitt. dtsch. Landw.-Ges., Frankfurt/M., 67. 1952, 971—972.

Fuchs, W. H., Fortschritte der Resistenzzüchtung bei Getreide im letzten Jahrzehnt. Ztschr. Pfl.züchtg. 31. 1952, 1—41, 4 Abb.

Goodwin-Bailey, K. F., and **Holborn, J. M.,** Laboratory and field experiments with pyrethrins/piperonyl butoxide powders for the protection of grain. Pyrethrum Post 2. 1952, nr. 4, p. 7—17.

Grafius, J. E., and **Dirks, V. A.,** An analysis of small grain performance in South Dakota 1942—1951. [diseases and injuries] South Dakota agric. Exp. Stat. Bull. 422. 1952, 23 p.

Grandori, R., (Damage from parasites in the Padua Delta.) Riso (Italia) 1. 1952, nr. 7, p. 30.

Harada, T., and **Oka, T.,** (On the putrefic phenomenon of the root in the rice plant.) Kyushu Noji Shikenjo 10. 1952, 143—144.

Hernandez Robredo, L., El vuelco o encamado de los cereales. Siembra (España) 8. 1952, 10—11.

Jensen, N. F., and **Kent, G. C.,** Disease resistance from a wheat × rye cross. J. Heredity 43. 1952, 242.

Kawai, I., Pathological and therapeutical studies on the seed and seedling rot of rice. Shizuoka agric. Exp. Stat. Techn. Bull. 3. 1952, 62 p.

Kerle, W. D., Maize hybrids and varieties — district recommendations for 1952 sowing. [disease resistance] Agric. Gaz. New South Wales 63. 1952, 286—289.

Koyama, T., (On the breeding of highly resistant varieties and foreign variety in Japanese-type in rice.) Jap. J. Breeding 2. 1952, 25—30.

Lakon, G., Über Keimpotenz und labile Keimtendenz bei Pflanzensamen, insbesondere bei Getreidefrüchten. Saatgut-Wirtschaft 4. 1952, 210—213, 236—238.

Laude, H. H., Schlehuber, A. M., et al., Ponca winter wheat. [diseases and insects] Kansas agric. Exp. Stat. Bull. 354 (Oklahoma A & M Coll. Bull. B—380). 1952, 14 p., 4 fig.

Livingston, J. E., Injury and drying of seed corn in relation to emergence. Phytopathology 42. 1952, 221—222.

McKeen, W. E., A seed-borne disease of corn. Plant Dis. Reptr. 36. 1952, 145—146, 5 fig.

Meltzer, J., Seed dressings with BHC and lindane. Trans. IXth int. Congr. Ent., Amsterdam, 1 (1951). 1952, 987—994.

Munn, M. T., Forty years of seed control. Farm Res. [New York State Stat.] 18. 1952, nr. 2, p. 3.

Ortega Cantero, B., Los trabajos de limpia, selección y desinfección de semilla de trigo, como medidas de control y combate de plagas y enfermedades. Agronomia, [Monterrey], 20. 1952, 5—7.

Pichler, F., »Wie die Saat, so die Ernte!« Pflanzenarzt, Wien, 5. 1952, Nr. 9, S. 2.

Pichler, F., Zur Frage der Bekämpfung von Getreidekrankheiten. (Auszug.) In: Ber. Arb.tagung 1952 »Arb.gemeinsch. Saatzuchtleiter« usw., Admont 1952, 134—142.

Pichler, F., und Schreier, O., Wichtige Krankheiten und Schädlinge im Getreidebau. Bundesanst. Pfl.schutz, Wien 1952. 62 S., 29 farb. Taf.

Poehlman, J. M., Breeding winter barley for hardiness and disease resistance. Econ. Bot., Lancaster, 6. 1952, 176—184.

Rogers, J. S., and Collier, J. W., Corn production in Texas. [diseases] Texas agric. Exp. Stat. Bull. 746. 1952, 76 p., 14 fig., 3 tab. geogr.

Rosen, H. R., Breeding cereal crops for the control of diseases. Proc. Arkansas Acad. Sci. 5. 1952, 77—78.

Rosen, H. R., Oat diseases in Arkansas 1950—51. Plant Dis. Reptr. 36. 1952, 153—154.

Rupp, E., Wheats that fight back. [disease resistant varieties] Capper's Farmer (Kansas) 63. 1952, nr. 11, p. 24, 64—65.

Russell, R. C., Diseases of barley and their control. Agric. Inst. Rev., Ottawa, 7. 1952, nr. 2, p. 35—36, 2 fig.

Schubin, J. D., (Role of agricultural practices in increasing resistance of winter crops (wheat and barley) to freezing and dying off.) Sowietsk. Agron., Moskwa, 10. 1952, nr. 9, p. 81—82.

Schwanz, H. L., What can you do about oats? This could be a big year for oat diseases, say the experts. Here's how you can minimize possible losses to your crop. Country Gentleman, Philadelphia, 122. 1952, nr. 2, p. 22, 66, 68.

Sprague, R., and Fischer, G. W., Check list of the diseases of grasses and cereals in the western United States and Alaska. Washington agric. Exp. Stat. Circ. 194. 1952, 188 p.

Srinivasan, U. C., Diseases of fodder crops in India. I. Sorghum. II. Maize. Mysore agric. J., Bangalore, 28. 1952, 46—51, 92—101.

Stephan, F., Feinde unserer Sommerungen. [Getreidekrankheiten und -schädlinge in Österreich] Bauer 5. 1952, Nr. 12, S. 2—3.

Tasugi, H., (Oil paper covered seed bed of rice plant and diseases.) J. Plant Prot., Tokyo, 34. 1952, 159—160.

Tedin, O., och Gelin, O. E. V., Kombinerade sort- och mangangödslingsförsök i havre och potatis. (Manganese and variety tests in oats and potatoes.) Kungl. Lantbruksakad. Tidskr. (Ztschr. Kgl. schwed. Akad. Landw.), Stockholm, 91. 1952, 158—178.

Terman, G. L., Plummer jr., B. E., and Folsom, D., Some effects of arsenical vine killers on potatoes and oats. Maine agric. Exp. Stat. Bull. 501. 1952, 11 p., 2 fig.

Tocchetto, A., and Lagos, M. B., (Diseases of rice in Rio Grande do Sul.) Lavoura arroz. (Brasil) 6. 1952, nr. 61, p. 21—22.

Ueda, K., (Cooperative control on wheat and barley at Shiga Prefecture.) J. Plant Prot., Tokyo, 39. 1952, 363 — 364.

Uto, T., (Symptomatic observation of abnormal withering in wheat plants.) Kyushu Noji Shikenjo 10. 1952, 140—142.

Valder, P. G., Further notes on rice diseases in Australia. Austr. Plant Dis. Recorder 4. 1952, 28.

Webster, O. J., Diseases of sorghum and corn in Nigeria, Africa, 1951. Plant Dis. Reptr. 36. 1952, 166—167.

Wernham, C. C., Disease resistance and early testing of maize. Science, Lancaster, 116. 1952, 57—58.

Zacher, F., Pulverförmige Bekämpfungsmittel gegen Getreideschädlinge. Mühle 89. 1952, 612—613, 627—628.

Cereal diseases in 1951. Plant Path., London, 1. 1952, 33—34.

Diseases of the oat crop. Scotl. Dept. Agric. Adv. Leafl. (n. ser.) 21. 1952, 9 p., 2 tab.

Kenbar winter barley. [disease resistance] Seed World 71. 1952, nr. 5, p. 8, 47, 1 fig.

New oat variety popular. [disease resistance] Seed World 71. 1952, nr. 4, p. 37.

Virginia develops two new hybrids. Seed World 70. 1952, nr. 1, p. 22.

b. Nichtparasitäre Krankheiten
Diseases not caused by parasites
Maladies non parasitaires

Aboul-Ela, M. M., Physiological changes and freezing injury in maturing maize. Iowa State Coll. J. Sci. 26. 1952, 155.

Aitken, T. R., Meredith, W. O. S., and Olson, P. J., Effect of 2, 4-D on qualities of western Canadian wheat, barley, and oats. Sci. Agric., Ottawa, 32. 1952, 317—332.

Aldrich, R. J., and Wilard, C. J., Factors affecting the pre-emergence use of 2, 4-D in corn. Weeds 1. 1952, 338—345.

Andersen, S., Sensitivity to 2, 4-D of barley and oats at different stages of development. Physiol. Plantarum, København, 5. 1952, 321—333.

Anglade, P., Répercussions des enrobages insecticides à sec sur la germination et le début de la croissance du maïs. Phytiatrie-Phytopharm. nr. 4. 1952, 23.

Bernuth, v., Auswinterungsschäden vermeiden. Dtsch. landw. Presse 75. 1952, 258, 2 Abb.

Bobrov, R. A., The effect of smog on the anatomy of oat leaves. Phytopathology 42. 1952, 558—563, 3 fig.

Caldecott, R. S., and **Smith, L.,** The influence of heat treatments on the injury and cytogenetic effects of X-rays on barley. Genetics 37. 1952, 136—157.

Ciferri, F., Fatti teratologici indotti dall'acido 2, 4-diclorofenossiacetico nel mais. Not. Mal. Piante nr. 18. 1952, 26—31.

Ciferri, R., Sviluppo dei germinelli di riso e frumento sotto condizioni microaerobiche cultura. Not. Mal. Piante nr. 19. 1952, 79—84.

Coic, Y., Coppenet, M., et **Mauvisseau,** Différences de sensibilité à la carence en manganèse des variétés d'avoine. Compt. rend. Acad. Agric. France 38. 1952, 209.

Coppenet, M., Carences en manganèse sur d'autres plantes que les céréales en Bretagne. Compt. rend. Acad. Agric. France 38. 1952, 193.

Derscheid, L. A., Physiological and morphological responses of barley to 2, 4-dichlorophenoxyacetic acid. Plant Physiol., Lancaster, 27. 1952, 121—134.

Derscheid, L. A., Responses of barley and oats to 2, 4-dichlorophenoxyacetic acid. Iowa State Coll. J. Sci. 26. 1952, 194—195.

Derscheid, L. A., Timing prevents decrease in oat and barley yield from 2, 4 D. South Dakota Farm, Home Res. (South Dakota Stat.) 3. 1952, 36—41.

Derscheid, L. A., Stahler, L. M., and **Kratochvil, D. E.,** Differential responses of barley varieties to 2, 4-dichlorophenoxyacetic acid (2, 4-D). Agron. J., Washington, 44. 1952, 182—188.

Diehl, R., Quelques aspects de la résistance au froid chez les céréales d'hiver. Ann. Amélior. Plantes, Paris, 2. 1952, 257—302, 7 fig.

Elle, G. O., Some environmental factors affecting the reponse of sweet corn to 2, 4-D. Weeds 1. 1952, 141—159.

Enin, T. K., (On the degeneration of Sary-Bugda (hard) wheat into Gul'geri (soft wheat).) Selektsiia i Semenovodstvo (Selection and Seed Growing), Moskwa, 18. 1952, nr. 11, p. 24—28.

Eschenhagen, Die Mangelkrankheiten im Getreide. Bauernbl. Schlesw.-Holst. 6./102. 1952, 740.

Faure, J. P., Céréales endommagées par la grêle; les principes de l'expertise topographique. Élevage et Cult. (Algérie) 4. 1952, nr. 42, p. 13—14.

Fischer, Auf Ährenschieben und Manganmangel achten: Sorgen um das Sommergetreide. Bauernbl. Schlesw.-Holst. 6./102. 1952, 711.

Fuchs, W. H., Die Verhütung nichtparasitärer Erkrankungen bei Getreide auf dem Wege der Züchtung. Ber. oberhess. Ges. Natur-, Heilkunde Gießen, Naturwiss. Abt., NF. 25. 1952, 51—77.

Garese, P., y **Sarasola, A. A.,** Albinismo en cereales por tratamiento de la semilla con estreptomicina. Phyton, [Buenos Aires], 2. 1952, 87—97.

Genkel', P. A., and **Margolina, K. P.,** (On physiological peculiarities which increase resistance of cereals to spring frosts.) Dokl. Akad. Nauk SSSR 82. 1952, 785—788.

Hänsel, H., Beobachtungen über die Wirkung der Kälte auf die Keimwurzeln von Wintergetreide (mit besonderer Berücksichtigung des Vernalisationsverfahrens). Bodenkultur, Wien, 6. 1952, 152—162, 2 Abb.

Haltiwanger, W. L., and **Wernham, C. C.,** Some fundamental studies on cold-testing of corn. Phytopathology 42. 1952, 467.

Hansen, J. R., and **Buchholtz, K. P.,** Inactivation of 2, 4-D by riboflavin in light. [tests with corn seedlings] Weeds 1. 1952, 237—242.

Harada, T., (Effects of the windbreak in a field. II.) Kyushu Noji Shikenjo 9. 1952, 103—104.

Haskell, G., Genetics of cold tolerance in maize and sweet corn seed. Heredity, London, 6. 1952, 377—385.

Holman, W. G., Chemicals cause wet corn. Oregon Farmer, Portland, 3. 1952, 29.

Hoppe, P. E., A paper-doll technique for disease tests of seed corn in cold soils. Phytopathology 42. 1952, 11 (Abstr.).

Horiguchi, H., Yamashina, H., and **Shoji, M.,** (The effect of some new organic agricultural chemicals on crops. 1. On the injurious concentration of benzene hexachloride to germinating roots of barley.) Oyo-Kontyu (Nippon Soc. appl. Ent.), Tokyo, 7. 1952, 183—189.

Huelsen, W. A., and **Brown, W. N.,** Physical damage to sweet corn seed caused by mechanical harvesting and subsequent processing. Illinois agric. Exp. Stat. Bull. 561. 1952, 45 p.

Iwin, I. A., Influence of shelterbelts on crops. [windbreaks chiefly for wheat] Les i Step' (USSR) 5. 1952, 42—46.

Jaubert, P., À propos du miellat du petit mil. Bull. Bambey (Sénégal) Centre Rech. agron 6. 1952, 67—69.

Joshi, N. V., and **Joshi, S. G.,** Effect of copper sulphate on rice in the Bombay State. Sci. and Cult., Calcutta, 18. 1952, 96—97.

Kandiah, S., Potash deficiency in paddy. Trop. Agriculturist, Peradeniya, 108. 1952, 48.

Large, E. C., and **Dillon Weston, W. A. R.,** Ear distortion in barley and other cereals caused by spraying with MCPA and 2, 4-D. J. agric. Sci., Cambridge, 41. 1951, 338—349.

Lochow, J. v., Versuche über Auswuchsfestigkeit von Weizen. Agri hort. genet., Landskrona, 10. 1952, 113—140.

Longchamp, R., Roy, M., et **Gautheret, R. J.,** Action de diverses hétéro-auxines desherbantes sur le rendement des céréales. Compt. rend. Acad. Agric. France 38. 1952, 81—85.

Longchamp, R., Roy, M., et **Gautheret, R. J.,** Action de quelques hétéro-auxines sur la morphogénèse des céréales. Ann. Amélior. Plantes, Paris, 2. 1952, 305—327, 16 fig.

Longchamp, R., Roy, M., et **Gautheret, R. J.,** Nouvelles recherches sur l'action de quelques hétéro-auxines désherbantes sur les céréales. Ann. Amélior. Plantes, Paris, 2. 1952, 117—154, 1 fig.

Longchamp, R., Roy, M., et **Gautheret, R. J.,** Recherches sur les modifications du rendement des céréales par les hétéro-auxines désherbantes. Ann. Amélior. Plantes, Paris, 2. 1952, 669—706, 2 fig.

Longchamp, R., Roy, M., et **Gautheret, R. J.,** Sur la stérilisation du blé par les hétéro-auxines désherbantes. Compt. rend. Acad. Sci., Paris, 234. 1952, 558—560.

Machacek, J. E., and **Wallace, H. A. H.,** Germination of treated and untreated seed of wheat, oats and barley of different commercial grades. Sci. Agric., Ottawa, 32. 1952, 597—602, 5 fig.

Machacek, J. E., and **Wallace, H. A. H.,** Relation of market grade to germination of treated or untreated seed of wheat, oats, and barley. Proc. canad. phytopath. Soc. nr. 19. 1952, 17 (Abstr.).

McKinney, H. H., Specht, A. W., and **Stanton, T. R.,** Certain factors affecting chlorophyll degeneration and pigmentations in oats and other grasses. Plant Dis. Reptr. 36. 1952, 450—458.

Marini, E., (Rice sensibility to 2, 4-D as related to the age of the plants.) Not. Mal. Piante nr. 19. 1952, 47—50.

Milner, M., Shellenberger, J. A., Lee, M. R., and **Katz, R.,** Internal fissuring of wheat due to weathering. Nature, London, 107. 1952, 533, 2 fig.

Müntzing, A., and **Lima-de-Faria, A.,** Pachytene analysis of a deficient accessory chromosome in rye. Hereditas, Lund, 38. 1952, 1—10.

Mutilo, I. Z., (Measures for controlling frost destruction of winter wheat.) Sowietsk. Agron., Moskwa, 10. 1952, nr. 10, p. 28—31.

Netschiportschuk, I. D., (Some conditions which contribute to the degeneration of branching wheat.) Agrobiologiia, Moskwa, 4. 1952, 119—121.

Nowikow, W. P., Effect of water deficiency in soil during various phases of oat development. Dokl. Akad. Nauk SSSR 82. 1952, 641—643.

Ogihara, T., and **Tanikawa, W.,** Characteristics of soil producing potash-deficiency symptoms in the rice plant. II-III. J. Sci. Soil, Manure, Tokyo, 21. 1951, 198—202, 301—305.

Okuntsow, M. M., and **Lewtsowa, O. P.,** Effect of copper on water regime and drought resistance of plants. [wheat] Dokl. Akad. Nauk SSSR 82. 1952, 649—651.

Olson, P. J., Effects of herbicides on cereals with special reference to oats. Proc. north centr. Weed Control Conf. 9. 1952, 2—4.

Owetschkin, S. K., and **Simotschkina, M.,** Seed germination and cold resistance of winter wheat plants during transplantation of embryo to the endosperm of another plant. Dokl. Akad. Nauk SSSR 82. 1952, 645—648.

Patterson, E. B., The use of functional duplicate-deficient gametes in locating genes in maize. Genetics 37. 1952, 612—613 (Abstr.).

Primost, E., Zur Anwendung des Konzentratsprühverfahrens mit Dicopur (2, 4 D) bei Hafer. Pflanzenschutzberichte, Wien, 8. 1952, 44—49.

Richards, F. J., and **Coleman, R. G.,** Occurrence of putrescine in potassium-deficient barley. Nature, London, 170. 1952, 460.

Rieuf, P., Les maladies non parasitaires du riz. Terre maroc. 274. 1952, 331—333.

Rodgers, E. G., Responses of corn to 2, 4-dichlorophenoxyacetic acid. Iowa State Coll. J. Sci. 26. 1952, 273—274.

Rusakowa, A. A., and **Raskin, S. E.,** (Determining toxicity of fungicides against blight of the sprouting ear of wheat.) Selektsiia i Semenovodstvo (Select., Seed Growing), Moskwa, 19. 1952, nr. 3, p. 68—72.

Schwartz, D., The effect of oxygen concentration on X-ray-induced chromsosome breakage in maize. Proc. nat. Acad. Sci., Washington, 38. 1952, 490—494.

Scragg, E. B., The effects of »hormone« herbicides upon cereal crops. Ann. appl. Biol. 39. 1952, 423—428.

Simon, L., Frostschäden beim Winterroggen. Landw. Wochenbl. München 142. 1952, 961, 2 Abb.

Staniforth, D. W., Effect of 2, 4-dichlorophenoxyacetic acid on meristematic tissues of corn. Plant Physiol., Lancaster, 27. 1952, 803—811.

Staniforth, D. W., and **Atkins, R. E.,** Effect of 2, 4-D on yield and bushel weight of oats. Agron. J., Washington, 44. 1952, 587—589.

Tamura, S., and **Takaoka, T.,** (Some investigations on the damage of overflooded rice plant.) Kyushu Noji Shikenjo 10. 1952, 45—46.

Terman, G. L., Plummer, B. E., and **Folsom, D.,** Some effects of arsenical vine killers on potatoes and oats. Maine agric. Exp. Stat. Bull. 501. 1952, 11 p., 3 fig.

Terrier, Ch., La pourriture des neiges affectant les céréales. Rev. rom. Agric., Vitic., Arboric. 8. 1952, 33—35, 4 fig.

Timofeewa-Tjulina, M. T., (Die Winterhärte des auswachsenden (mehrjährigen) Weizens.) Selektsiia i Semenovodstvo (Selekt. u. Samenzucht), Moskwa, 19. 1952, nr. 3, p. 44—58.

Tsvetkov, M. I., (Development of cold resistance in spring (grain) crops.) [yarovization] Agrobiologiia, Moskwa, 4. 1952, 52—55.

Unrau, J., and **Larter, E. N.,** Cytogenetical responses of cereals to 2, 4-D. I. Canad. J. Bot. 30. 1952, 22—27.

Usenko, V. V., (Mechanical injury to (wheat) seeds.) Selektsiia i Semenenovodstvo, Moskwa, 19. 1952, nr. 5, p. 62—66.

Vanterpool, T. C., and **Samborski, D. J.,** Grey speck of oats in Saskatchewan. [manganese deficiency] Proc. canad. phytopath. Soc. nr. 19. 1952, 19.

Wells, D. G., Wheat resists frost injury; performs well in tests at experiment stations. Mississippi Farm Res. (Mississippi Stat.) 15. 1952, nr. 9, p. 7.

Woitechowa, W. A., (On causes for the dying off of dicotyledonous plants under the influence of some herbicides.) [effect of 2, 4-D on sunflower and wheat] Agrobiologiia, Moskwa, 5. 1952, 126—131.

Yoshimura, S., and **Kinoshita, S.,** (On the boric acid injury to wheat and naked barley.) Kyushu Noji Shikenjo 9. 1952, 45—46.

Zalik, S., and **Gries, G. A.,** Resporation response of wheat root tips to 2, 4-dichlorophenoxyacetic acid, maleic hydrazide and indole acetic acid. Proc. north centr. Weed Control Conf. 9. 1952, 36 (Abstr.).

Die **Dörrfleckenkrankheit** des Hafers. Bauernbl. Schlesw.-Holst. 6./102. 1952, 553.

c. Pflanzliche Feinde
Vegetal parasites — Parasites végétaux

Bacteriophyta

Boewe, G. H., Stewart's disease prospects in Illinois for 1952. [Bacterium stewarti of corn] Plant. Dis. Reptr. 36. 1952, 238, 1 fig.

Boosalis, M. G., The epidemiology of Xanthomonas translucens (J. J. and R.) Dowson on cereals and grasses. Phytopathology 42. 1952, 387—395.

Hagborg, W. A. F., A new bacterial disease of barley. Proc. Manitoba Ann. Conf. Agron. 1952, 20—21.

Kiryu, T., and **Kuhara, S.,** (On the inoculation test for the varietal resistance to the bacterial leaf blight of rice plant.) Kyushu Noji Shikenjo 9. 1952, 9—10.

Oksentjan, U. G., (Die Ätiologie der schwarzen Bakteriose des Weizens.) Mikrobiologiia, Moskwa, 21. 1952, 205—209.

Tanaka, I., (Studies on the varietal resistance of rice plant to bacterial leaf blight.) Kyushu Noji Shikenjo 10. 1952, 145—146.

Tessi, J. L., y **Frecha, J. H.,** Enfermedades de los sorgos en la Argentina. II. Tres enfermedades producidas por bacterios. [Pseudomonas andropogoni, Xanthomonas holcicola, Pseudomonas syringae (Bact. holci)] Minist. Agric., Ganad., Dir. Gen. Invest. agríc., Buenos Aires, Publ. Técn. nr. 73. 1952, 4 p., 6 fig. (Rev. IDIA vol. 5, nr. 58).

Vasudeva, R. S., and **Hingorani, M. K.,** Bacterial disease of wheat caused by Corynebacterium tritici (Hutchinson) Bergey et al. Phytopathology 42. 1952, 291—293, 2 fig.

Fungi

Allgemeiner Teil
General part — Partie générale

Basile, R., Ricerche sulla flora fungina in Radici di cereali nella primavera 1951. (Research on the parasitic flora of the roots of cereals grown in the spring 1951.) Boll. Staz. Pat. veg., Roma, 8 (1950). 1952, 161—165, 5 fig.

Blobaum, R., Corn crop hit by »purpling« stalk disease. Iowa Agriculturist 51. 1952, nr. 4, p. 16—17.

Bockmann, H., Beobachtungen über Fußkrankheiten am Weizen. Bauernbl. Schlesw.-Holst. 6./102. 1952, 1026—1027.

Bockmann, H., Neuere Beobachtungen über die Zusammenhänge zwischen Fruchtfolge und Fußkrankheiten bei Weizen und Erbsen. Nachr.bl. dtsch. Pfl.schutzd., Braunschweig, 4. 1952, 76—77.

Bugnicourt, F., Note sur la mycoflore des semences de riz dans les territoires du Pacifique Sud. Rev. Mycol. 17. 1952, Suppl. colon. 1, p. 26—29.

Cabal Martinez, E., Afecciones fungosas en los cultivos de arroz en el Valle del Cauca. Notas Agron. Estac. agric. Exp. Palmira 5. 1952, 1—4.

Callsen, H., Fußkrankheiten am Weizen. Bauernbl. Schlesw.-Holst. 6./102. 1952, 1024—1026.

Crosier, W., and **Patrick, S.,** Mushrooms on seeds of side-oats grama. News Letter Assoc. off. Seed Analysts North Amer. 26. 1952, nr. 4, p. 7—8.

Dierchen, W., Der äußere und innere Pilzbefall beim Getreidekorn. Getreide u. Mehl 2. 1952, 125—127.

Goto, S., and **Moore, M. B.,** Some oat diseases in Minnesota 1951. [fungi] Plant Dis. Reptr. 36. 1952, 69—70.

Hosokawa, S., Tanaka, S., and **Ishida, Y.,** (Effects of molding on the growth of paddy rice plants. II.) Kyushu Noji Shikenjo 10. 1952, 1—4.

Leye, H., Zum Thema Fußkrankheiten beim Weizen: Beobachtungen eines Praktikers. Bauernbl. Schlesw.-Holst. 6./102. 1952, 1059—1060.

McKeen, W. E., A hitherto unreported corn disease. Plant Dis. Reptr. 36. 1952, 143—144, 3 fig.

Miller, J. H., The presence of internal mycelium in corn grains in relation to external symptoms of corn ear rot. Proc. Assoc. south. agric. Workers 49. 1952, 143—144. — Phytopathology 42. 1952, 286 (Abstr.).

Müller, E., Pilzliche Erreger der Getreideblattdürre. Phytopath. Ztschr. 19. 1952, 403—416, 6 Abb.

Muntañola, M., Parásitos criptogámicos de los sorgos en la Provincia de Tucumán (nota preliminar). Rev. argent. Agron. 19. 1952, 220—230.

Reed, H. E., Cereal root rot studies in Tennessee. Proc. Assoc. south. agric. Workers 49. 1952, 177 (Abstr.).

Rosella, E., Des champignons vivant dans le sol ou apportés par les semences peuvent provoquer la fonte des semis: de blé, d'orge, de mais, de riz. Progr. agric., vitic. 1952, 372—375.

Saccas, A. M., Principaux champignons parasites du maïs (Zea mays L.) en Afrique Équatoriale Française. Agron. trop. 7. 1952, nr. 1, p. 5—42, 26 fig.

Tozzetti, G. T., True nature, causes and sad effects of the rust, the bunt, and smut, and other maladies of wheat and of oats in the field. Phytopath. Classics (Amer. phytopath. Soc., Ithaca) 9. 1952, 139 p., 3 tab.

Ullstrup, A. J., Leaf blights of corn. Indiana agric. Exp. Stat. Bull. 572. 1952, 22 p.

Valder, P. G., Rice diseases in Australia. Austr. Plant Dis. Recorder 4. 1952, 2—3.

Vanderwalle, R., De voetziekte van de tarwe. [Fußkrankheit des Weizens] Landbouwtijdschrift 5. 1952, nr. 4, 5 p.

Phycomycetes

Bruehl, G. W., Observations on Pythium root rot of barley and wheat. Phytopathology 42. 1952, 4 (Abstr.).

Earhart, R. W., Oat downy mildew found in Florida. [Sclerospora macrospora] Plant Dis. Reptr. 36. 1952, 338.

Hooker, A. L., and **Dickson, J. G.,** Resistance to Pythium manifest by excised corn embryos at low temperatures. [P. debaryanum on maize] Agron. J., Washington, 44. 1952, 443—447, 1 fig.

Johnson, L. F., Control of root rot of corn under greenhouse conditions by microorganisms antagonistic to Pythium arrhenomanes. Phytopathology 42. 1952, 468.

Johnson, L. F., and **Wheeler, H. E.,** The effect of actinomycetes antibiotic to Phythium arrhenomanes in plate cultures on root rot of sugar-cane and corn. Phytopathology 42. 1952, 284 (Abstr.).

Kelman, A., and **Hebert, T. T.,** Evaluation of techniques for inoculating corn with Physoderma maydis. Phytopathology 42. 1952, 284 (Abstr.).

Mahmud, K. A., Root rot of maize caused by Pythium aphanidermatum (Eds.) Fitz. Sci. and Cult., Calcutta, 17. 1952, 339.

Sallans, B. J., and **Simmonds, P. M.,** Piebald or yellowberry in hard spring wheat. [Pythium arrhenomanes] Proc. canad. phytopath. Soc. nr. 20. 1952, 22 (Abstr.).

Staffeldt, E. E., and **Semeniuk, G.,** Pythium and other fungi colonizing sterilized straw in the soil. Phytopathology 42. 1952, 20 (Abstr.).

Summers, T. E., Destruction of maize roots by Pythium graminicola Subr. and Diabrotica undecimpunctata howardi Barber. Iowa State Coll. J. Sci. 26. 1952, 294—295.

Summers, T. E., Downy mildew (Sclerospora macrospora) of oats in the South. Plant Dis. Reptr. 36. 1952, 347—348.

Tessi, J. L., Physoderma sp., un nuevo parásito de los sorgos. IDIA (Inform. Invest. agríc.), Buenos Aires, 5. 1952, nr. 57, p. 10—11.

Vanterpool, T. C., The decline of browning root rot. [Pythium] Proc. canad. phytopath. Soc. nr. 19. 1952, 19.

Ascomycetes

Akai, S., (Relation of temperature to the invasion of the barley powdery mildew into the host.) [Erysiphe graminis] Agric. and Hortic., Tokyo, 27. 1952, 1135.

Arx, J. A. v., and **Olivier, D. L.,** The taxonomy of Ophiobolus graminis Sacc. Trans. brit. mycol. Soc. 35. 1952, 29—33, 1 fig.

Brenzel, W. E., Ergot production. Bi-mon. Bull. North Dakota agric. Exp. Stat. 14. 1952, 205—206.

Chevaugeon, J., Ophiobolus oryzinus Sacc. Pourriture brune du pied du riz. Maladie de l'Arkansas. Rev. Mycol. 17. 1952, Suppl. colon. 2, 4 p., 8 fig.

Darpoux, H., et **Faivre-Amiot, A.,** Action de produits du métabolisme du Trichothecium roseum L.K. sur l'Oidium de l'orge (Erysiphe graminis). Phytiatrie-Phytopharmacie nr. 1. 1952, 21—24.

Deufel, J., Die Züchtung von Mutterkorn (Claviceps purpurea) auf tetraploidem Roggen. Naturwissenschaften 39. 1952, 432, 1 Abb.

Du Plessis, S. J., and **Nortjé, J. H.,** Susceptibility of wheat and rye varieties and of grass species to Ophiobolus graminis Sacc. South Afr. Dept. Agric. Sci. Bull. 328. 1952, 19 p.

Futrell, M. C., Development of Erysiphe graminis tritici on susceptible and resistant common spring wheats. Phytopathology 42. 1952, 8 (Abstr.).

Grasso, V., Le Claviceps delle graminacee italiane. (Claviceps species on Italian Gramineae. I—V.) Ann. Sperim. agr., Roma, 6 (n. ser.). 1952, 747—784, 9 fig., 2 tab.; 973—1004.; 1173—1204, 10 fig.; 1507—1520, 3 tab.; 1521—1553.

Gupta, M., The story of Indian ergot (1941—51). J. Sci. Club, Calcutta, 5. 1952, nr. 3, p. 12—16.

Harris, H. B., Gore, U. R., and **Luttrell, E. S.,** Take-all of wheat in Georgia. [Gaeumannomyces graminis (Sacc.) v. Arx et Olivier] Plant Dis. Reptr. 36. 1952, 391.

Hashioka, Y., (Varietal resistance of rice to brown spot and yellow dwarf. (Studies on pathological breeding of rice. VI.)) [Cochliobolus (Ophiobolus) miyabeanus, Nephotettix bipunctatus cincticeps] Jap. J. Breedg. 2. 1952, 14—16.

Jensen, N. F., Tyler, L. J., and **Johnson, A. A.,** Cornell develops barley resistant to powdery mildew. Farm Res. [New York State Stat.] 18. 1952, nr. 2, p. 2.

Jones, E. T., and **Griffiths, D. J.,** Varietal resistance and susceptibility of oats to powdery mildew (Erysiphe graminis). Trans. brit. mycol. Soc. 35. 1952, 71—80.

Kotthoff, P., Das Mutterkorn. Landw. Wochenbl. Westf., Lippe 109 A. 1952, 85.

McKay, R., Failures in oats due to root rot caused by Gibberella zeae. Sci. Proc. R. Dublin Soc. 26 (n. ser.). 1952, 55—62, 1 tab.

Meyer-Bahlburg, W., Groß-Schädling Halmtöter. [Ophiobolus graminis] Dtsch. landw. Presse 75. 1952, 226.

Meyer-Bahlburg, W., Halmtöter und Schaffnit'sche Anbauregeln. [Ophiobolus graminis] Dtsch. landw. Presse 75. 1952, 302—303.

Mothes, K., und **Silber, A.,** Über den natürlichen Befall der Roggenfelder durch Mutterkorn. Pharmazie 7. 1952, 310—313, 4 Abb.

Oort, A. J. P., Van moederkorenvergiftiging tot moederkorencultuur. (From ergotism to ergot cultivation.) Meded. Dir. Tuinbouw 15. 1952, 743—757, 12 fig. (Lab. Phytopath., Wageningen, Meded. nr. 136).

Poole, D. D., and **Murphy, H. C.,** Reaction of oat varieties to black stem and to a toxic substance produced by the causal organism. [Leptosphaeria avenaria Weber] Phytopathology 42. 1952, 16 (Abstr.).

Roman-Loidolt und **Koltermann,** Ein Schädling als Einnahmequelle. [Mutterkorn] Dtsch. landw. Presse 75. 1952, 286, 1 Abb.; 319, 1 Abb.

Schaller, C. W., and **Wiebe, G. A.,** Sources of resistance to new blotch of barley. [Pyrenophora teres] Agron. J., Washington, 44. 1952, 334—336.

Simons, M. D., and **Murphy, H. C.,** Kernel blight phase of Septoria black stem of oats. [Leptosphaeria avenaria] Plant Dis. Reptr. 36. 1952, 448—449, 1 fig.

Simpson, C. F., and **West, E.,** Ergot poisoning in cattle. Florida agric. Exp. Stat. Circ. S-43. 1952, 6 p.

Stanton, T. R., Septoria black stem of oats abundant in most of the North Central States. [Leptosphaeria avenaria] Plant Dis. Reptr. 36. 1952, 349.

Wahlin, B., (Wheat and the take-all diseases.) [Ophiobolus graminis] Månadsbl. skand. Kreatursförsäkr.-bol., Stockholm, 30. 1952, 112.

Webster, J., Graminicolous pyrenomycetes. IV. Microthyrium nigro-annulatum n. sp. and M. gramineum. Trans. brit. mycol. Soc. 35. 1952, 208—214, 3 fig.

Wiechert, E., Mutterkornanbau in Mecklenburg. Pharmazie 7. 1952, 859—862.

La **espiga blanca** o mal del pie del trigo. In: Congreso Agricola, Ganadero, Forestal y Pesquero del Sur de Chile. [Ophiobolus graminis] Hacia desarrollo racional recursos naturales, Temuco, 1952, 256—257.

Basidiomycetes

Afifi, A., Production of rust resistant vulgare wheats by backcrossing. II. Egypt. R. agric. Soc. Bull. 36. 1952, 34 p.

Åkerman, Å., MacKey, J., Holmgren, O., Wålstedt, I., Waller, E., and **Torpe, N. V.,** (The experience gained at the Swedish Seed Association from the 1951 year epidemy of black stem rust on wheat. I-VIII.) Sver. Utsädesfören. Tidskr., Lund, 62. 1952, 75—151.

Artaza, C. A., La resistencia a »Puccinia graminis tritici« en cruzamientos de »Triticum × Agropyron«. Rev. argent. Agron. 19. 1952, 179—183. (Minist. Agric., Ganad. Nac., Castelar, Publ. técn. nr. 71).

Batts, C. C. V., The distribution, host range and seasonal development of Puccinia graminis Pers. in South-East Scotland. [on Berberis vulgaris and Mahonia aquifolium] Trans., Proc. bot. Soc., Edinburgh, 36. 1952, 48—57, 1 tab., 2 tab. geogr.

Batts, C. C. V., and **Elliott, C. S.,** Indications of effect of yellow rust on yield of wheat. [Puccinia glumarum] Plant Path., London, 1. 1952, 130—131, 1 fig.

Bell, F. H., Schmidt, C. G., Miller, W. E., and **Kingsolver, C. H.,** A technique for obtaining uniform deposition of uredospores on cereal leaves. Phytopathology 42. 1952, 340 (Abstr.).

Bell, G. D. H., and **Lupton, F. G. H.,** Yellow rust in wheat. Its significance in wheat cultivation and breeding in England. Agriculture, J. Minist. Agric., London, 58. 1952, 572—576.

Bentz, G., An antibiotic agent from Marasmius graminum. Ark. Kemi, Stockholm, 3. 1952, 495—500.

Boasso, C. S., y **Levine, M. N.,** Roya de la hoja del trigo, Puccinia rubigovera tritici en el Uruguay. Arch. fitotécn. Uruguay, Montevideo, 5. 1952, 21—31.

Bohus, G., és **Podhradszky, J.,** A búza köüszögjét okozó Tilletia-fajok hö- és talajnedvesség igényére vonatkozó vizsgálatok. (Investigations with regard to the temperature and soil humidity claims of Tilletia species causing bunt.) Ann. hist.-naturales Musei nat. hung. (n. s.) 3. 1952, 37—46, 3 fig., 1 tab. geogr.

Borlaug, N. E., Campos, A. T., and **Bayles, B. B.,** Mexican varieties of wheat resistant to race 15 B of stem rust. [Puccinia graminis var. tritici] Plant Dis. Reptr. 36. 1952, 147—150.

Bromfield, K. R., and **Broyles, J. W.,** Marker races useful in studying survival ability of races of Puccinia graminis tritici. Phytopathology 42. 1952, 479.

Brown, A. M., Mutation in the incitant of leaf rust of wheat, Puccinia triticina. Phytopathology 42. 1952, 479 (Abstr.).

Broyles, J. W., Sugar and amino acid composition and variations found in urediospores of races of cereal rusts. Phytopathology 42. 1952, 3—4 (Abstr.).

Canamas, R., y **Urries, M. J.,** Reacción de una colección de trigos del Centro de Cerealicultura a las razas 14, 21 y 24 de »Puccinia graminis tritici«. Bol. Inst. Nac. Invest. agron., Madrid, 12. 1952, 573—588.

Cenoz, H. P., Resistencia al carbon volador del trigo. Rev. Invest. agríc., Buenos Aires, 6. 1952, nr. 1, p. 29—88.

Cherewick, W. J., Studies on dwarf leaf rust of barley. US Dept. Agric. Techn. Bull. 1056. 1952.

Ciccarone, A., y **Malaguti, G.,** Notas sobre la biologia y control del carbon del sorgo (Sphacelotheca sorghi (LK) Clinton) en Venezuela. Venezuela Inst. Nac. Agric. Bol. Técn. 6. 1952, 42 p.

Clark, F. S., The development of an isolated area for the production of smut-free barley seed. [Ustilago nuda] Agric. Inst. Rev., Ottawa, 7. 1952, nr. 2, p. 37—38, 1 fig.

Conners, I. L., Stem rust in western Canada and dwarf bunt found in Ontario. FAO Plant Prot. Bull. 1. 1952, 43.

Costa, J. J., y **Danfiño, D. S.,** El hexaclorobencene o »66«, su quimica y acción contra la caries o carbón hediondo del trigo. IDIA (Inform. Invest. agríc.), Buenos Aires, 5. 1952, 16—22.

Dal Monte, G., (Caries and smut of wheat.) [Tilletia, Ustilago] Molini Italia 3. 1952, 406—407.

Da Silva, A. R., (Caries or smut in wheat.) Granja, Porto Alegre, 8. 1952, nr. 65/66, p. 62.

DeVay, J. E., Rowell, J. B., and **Stakman, E. C.,** Free amino-acids and carbohydrates synthesized by Ustilago zeae. Phytopathology 42. 1952, 6 (Abstr.).

Dickson, J. G., Grimm, G. R., and **Hooker, A. L.,** Stem rust control with fungicides. [Puccinia graminis] Phytopathology 42. 1952, 465.

Dillon Weston, W. A. R., and **Schofield, E. R.,** Control of millet smut by seed disinfection. [Sphacelotheca destruens] Plant Path., London, 1. 1952, 29—30, 1 tab.

Dupias, G., À propos des urédinées parasites des aegilops. [Puccinia triticina, P. dispersa, P. clematidis-secalis] Ber. schweiz. bot. Ges. 62. 1952, 370—373.

Edney, L. E., Rust in wheat. Essex Farmers' J. 31. 1952, nr. 6, p. 32—33.

Faria, E. R., (Artificial inoculation of barley with covered smut (Ustilago hordei).) Rev. Agron., Porto Alegre, 16. 1952, nr. 181/182, p. 2—8.

Finkner, V. C., Genetic factors governing resistance and susceptibility of oats to Puccinia coronata avenae Eriks. & E. Henn., race 57. Iowa State Coll. J. Sci. 26. 1952, 201—202.

Fischer, G. W., Tilletia brevifaciens sp. nov., causing dwarf bunt wheat and certain grasses. Res. Stud. State Coll. Washington 20. 1952, 11—24, 1 fig.

Fischer, G. W., and **Tyler, L. J.,** Is there an earlier record of dwarf bunt than 1931? [Tilletia brevifaciens] Plant Dis. Reptr. 36. 1952, 445—447.

Fletcher, D. G., Black stem rust and field inspection trip. [wheat] Macaroni J. 34. 1952, nr. 4, p. 24, 35; nr. 5, p. 10.

Fletcher, D. G., The 1952 grain rust outlook. Northwest. Miller 247. 1952, nr. 4, p. 18—20, 40, 42.

Fujii, H., (A survey of the annual recurrence of stripe rust of cereals, Puccinia glumarum.) Ann. phytopath. Soc. Japan 17. 1952, 25—27, 1 tab. geogr.

Gaßner, G., Keimungstemperatur und Flugbrandbefall. Tijdschr. Plantenziekten 58. 1952, 219—223.

Gaßner, G., Neuere Versuche zur Bekämpfung des Gerstenflugbrandes. Nachr.bl. dtsch. Pfl.schutzd., Braunschweig, 2. 1950, 65—67, 1 Abb.

Gheorghianov, V., y **Fischer, G. J.,** El carbon del maíz; observaciones complementarias. [Ustilago zeae, Sorosporium reilianum] Arch. fitotécn. Uruguay, Montevideo, 5. 1952, 119—129.

Gokhale, V. P., and **Patel, M. K.,** Effect of stem rust, particularly on grain weight, of some improved indian wheats. Indian Phytopath. 5. 1952, 89—103, 1 tab.

Gokhale, V. P., and **Patel, M. K.,** Suggestions for reducing epidemics of black stem rust of wheat in Peninsular India. Poona agric. Coll. Mag. 42. 1952, 247—251.

Gokhale, V. P., and **Patil, B. P.,** Occurrence of a new race (No. 122) of Puccinia graminis tritici in Bombay State. Curr. Sci., Bangalore, 21. 1952, 250.

Govi, G., (Loose smut of grain.) Inform. Fitopat., Bologna, 2. 1952, 57—59.

Govindu, H. C., Occurrence of Tilletia transvaalensis in Mysore. Curr. Sci., Bangalore, 21. 1952, 224.

Grasso, V., La vitalità dei clamidoconidi di alcuni ustilaginali in prove di germinazione di laboratorio. (The viability of the chlamydospores of certain Ustilaginales in laboratory germination tests.) Ann. Sperim. agr., Roma, 6 (n. ser.). 1952, 1555—1564, 2 tab.

Griot, M., Caries del trigo. [Tilletia] Rev. Bolsa Com., Rosario (Argent.), 40. 1952, nr. 977, p. 9—10.

Groman, E., (Les resultats de l'efficacité du 2, 4-D composé sur la destruction des petits buissons des épine-vinettes (Berberis vulgaris L.).) Biljna Proizvodnja (Pflanzenbau), Zagreb, 5. 1952, 92—94.

Guttenberg, H. v., und Strutz, I., Zur Keimungsphysiologie von Ustilago zeae. Arch. Mikrobiol. 17. 1952, 189—198.

Guyot, L., et Massenot, M., Dix ans d'expérimentation sur la rouille noire des céréales (1941—1950). [Puccinia graminis tritici] Ann. Épiphyties, Paris, 3. 1952, 351—391. — Compt. rend. Acad. Agric. France 38. 1952, 86—92.

Guyot, L., et Massenot, M., Observations et expérimentations sur la rouille noire des céréales au cours des années 1948 à 1950. [Puccinia graminis tritici] Ann. Amélior. Plantes, Paris, 2. 1952, 507—523.

Hagman, J. V., (Fight the Berberis bush.) Lantbrukstidskr. Stockholms Län, Stad (Sverige) 2. 1952, nr. 4, p. 7—10.

Hassebrauk, K., Untersuchungen über die Einwirkung von Sulfonamiden und Sulfonen auf Getreideroste. II. Weitere Untersuchungen über die rosthemmende Wirkung. III. Untersuchungen über den Wirkungsmechanismus von Sulfonamiden und Sulfonen. Phytopath. Ztschr. 18. 1952, 453—460; 19. 1952, 56—78, 1 Abb.

Heyne, E. G., Inheritance of leaf rust, Puccinia rubigovera tritici (Erikss. et Henn.) Carl., reaction and other characters in crosses among three wheat varieties. Diss. Abstr. 12. 1952, 560—561.

Hingorani, M. K., Factors affecting the survivability of certain physiologic races of Puccinia graminis avenae Erikss. et Henn. Phytopathology 42. 1952, 526—531, 1 fig.

Hingorani, M. K., Morphological and pathological studies of races 2, 7, and 8 of oat stem rust. [Puccinia graminis] Phytopathology 42. 1952, 486—488.

Hirschhorn, E., Presencia de Sorosporium reilianum en los cultivos de maiz y sorgo en la República Argentina. IDIA (Inform. Invest. agríc.), Buenos Aires, 5. 1952, nr. 55, p. 8—11.

Holton, C. S., and Jackson, T. L., Results from tests for the control of dwarf bunt by applying fungicides to infested soil. Plant Dis. Reptr. 36. 1952, 423.

Holton, C. S., and Vogel, O. A., Evidence of pathogenic specialization in dwarf bunt of winter wheat in the Pacific Northwest. Plant Dis. Reptr. 36. 1952, 434.

Hotson, H. H., The inhibition of wheat stem rust by sulfadiazine and the reversal of this effect by paraamino benzoic acid and folic acid. Phytopathology 42. 1952, 11 (Abstr.).

Huffmann, M. D., and Johnston, C. O., Prevalence and distribution of physiologic races of the leaf rust [Puccinia rubigo-vera tritici] of wheat in Kansas. Trans. Kansas Acad. Sci. 55. 1952, 419—426.

Iino, T., Reversional mutations in the methionine-requiring strain of Ustilago maydis. Jap. J. Genet. 27. 1952, 79—84.

İren, S., Mısır pası (Puccinia sorghi Schw.). (Corn rust in Turkey.) Bitki Koruma Bülteni (Bull. Plant Prot.), Ankara, 1952, nr. 3, p. 47—49, 2 fig.

Jackson, E. L., and Rowell, J. B., Mutation and environmental selection of growth types in Ustilago zeae. Phytopathology 42. 1952, 480 (Abstr.).

Johnson, T., and Green, G. J., Overwintering of urediospores of rye stem rust in Manitoba. [Puccinia graminis] Phytopathology 42. 1952, 403—404.

Johnston, C. O., and Levine, M. N., Distribution and prevalence of physiologic races of the leaf rust of wheat in the United States in 1951. [Puccinia rubigovera tritici] Plant Dis. Reptr. 36. 1952, 345—346.

Karaerow, P. G., (Planned frequent change of [wheat] varieties in industrial planting and control of rust.) Selekt. i Semenovodstvo (Select., Seed Growing), Moskwa, 19. 1952, nr. 12, p. 16—21.

Keding, F., Der Befall des Saatweizens mit Steinbrand im Jahre 1951 und sich hieraus ergebenden Folgerungen. Pflanzenschutz, München, 4. 1952, 64—67.

Keding, F., Untersuchungen zur Erfassung des Steinbrandbefalles an Weizen. Saatgut-Wirtschaft 4. 1952, 13—15.

Kietreiber, M., Untersuchungen von Winterweizen-Anerkennungsproben auf Infektion mit Steinbrandsporen. Bodenkultur, Wien, 6. 1952, Sdr.-H. 3, S. 63—68, 2 Abb.

Kišpatić, J., i Lušin, V., Prašna snijet kukuruza prilog biologiji i suzbijanju. (Investigations on the biology and control of head-smut of corn.) [Sorosporium reilianum Mc. Alp.] Saschtita Bilja (Plant Prot.), Beograd, nr. 12. 1952, 18—29.

Kublan, A., Der Gersten- und Weizenflugbrand und seine Bekämpfung. [Ustilago nuda hordei, U. tritici] Dtsch. Landw. 3. 1952, 353—354, 3 Abb.

Lagos, M. B., (Characteristics of physiological races of Puccinia coronata avenae in Rio Grande do Sul.) Rev. agron., Porto Alegre, 16. 1952, 107—108.

Lagos, M. B., (Pathogenic potential of Puccinia rubigo-vera tritici in Rio Grande do Sul.) Rev. agron., Porto Alegre, 16. 1952, 82.

Lagos, M. B., and Risch, N. A., (Physiological races of Puccinia graminis avenae in Rio Grande do Sul.) Rev. agron., Porto Alegre, 16. 1952, 132.

Leukel, R. W., Cooperative tests with fungicides for smut control in wheat and oats in 1952. Plant Dis. Reptr. 36. 1952, 428—433.

Lhoste, J., L'hexachlorobenzene et la lutte contre la carie du blé. Rev. agric. Afr. Nord 50. 1952, 568—569.

Lindfors, T., (Extermination of Berberis and black stem rust (Puccinia graminis).) Lantmannen, [Uppsala], 36. 1952, 151—152.

Lindquist, B., (Can extermination of Berberis ward off the black stem rust menace?) [wheat] Lantmannen, [Uppsala], 36. 1952, 87—89.

Lu, Sh. I., A study of variation in black pigment production in Ustilago zeae (Beckm.) Unger. Diss. Abstr. 12. 1952, 762—763.

Lu, Sh. I., Stakman, E. C., and Rowell, J. B., The behavior of mutable black lines of Ustilago zeae. Phytopathology 42. 1952, 480 (Abstr.).

Luc, M., Présence de Puccinia polysora sur le maïs en Côte d'Ivoire. Rev. int. Bot. appl., Agric. trop., Paris, 32. 1952, 194—195.

Lučić, S., (Controlling brown rust with chemical compounds.) Saschtita Bilja (Plant Prot.), Beograd, nr. 12. 1952, 43—48.

Mamontowa, A. N., Change in organism during the process of feeding of plants as one of the causes for loss of resistance by varieties. [experiments with brown rust of wheat] Dokl. Akad. Nauk SSSR 82. 1952, 493—496.

Martinez, M. L., Inheritance of reaction to leaf rust, Puccinia rubigo-vera tritici (Eriks.) Carleton, and of certain other characters in a wheat cross. Diss. Abstr. 12. 1952, 371—372.

Minz, G., and Bental, A., (Experiments on loose smut of wheat and barley.) [Ustilago tritici, U. nuda, U. nigra] Hassadeh, Tel-Aviv, 33. 1952, 113—116.

Mohajir, A.-R., Arny, D. C., and Shands, H. L., Studies on the inheritance of loose smut resistance in spring barleys. Phytopathology 42. 1952, 367—373.

Nagel, C. M., Wheat rust in South Dakota in late June. [Puccinia graminis var. tritici] Plant Dis. Reptr. 36. 1952, 338.

Nattrass, R. M., Preliminary notice of the occurrence in Kenya of a rust (Puccinia polysora) on maize. East Afr. agric. J. 18. 1952, nr. 1, p. 39.

Nilsson, R., (The Berberis bush must be exterminated.) Kalmar Läns Södra Hushsällsk. Arsskr. 1952, 109—111.

Ordish, F. G., Tull, tillet and bunt. Agriculture, J. Minist. Agric., London, 59. 1952, 235—238.

Pesola, V. A., and Kivi, E. I., Investigations on the damage done by stem rust (Puccinia graminis) in Southwest Finland, especially from the standpoint of varieties and the extent of damage. Maatalous, Helsinki, nr. 1. 1952, 7—12, 3 fig.

Pichler, F., Die Getreidebrandkrankheiten. Pflanzenarzt, Wien, 5. 1952, Nr. 2, S. 2—3.

Pohjakallio, O., (Über das Auftreten von Brand bei Hafer unter verschiedenen Belichtungsverhältnissen.) Suomen Maataloust. Seuran Aikakausk., Helsinki, 24. 1952, 24—29.

Ponchet, J., Guntz, M., et Charmet, F., Essais de traitement de la carie du blé, Tilletia tritici Bjérk (Wint.) en sol infesté. Ann. Épiphyties, Paris, 3. 1952, 415—421.

Prasada, R., and Lele, V. C., New physiologic races of wheat rusts in India. Indian Phytopath. 5. 1952, 128—129.

Rapin, J., et Terrier, Ch., La carie naine du froment. [Tilletia foetida, T. caries] Rev. rom. Agric., Vitic., Arboric. 8. 1952, 17—19, 4 fig.

Rapin, J., et Terrier, Ch., La carie naine du froment en Suisse romande au cours de la campagne 1951—1952. [Tilletia levis = T. foetida, T. caries = T. tritici] Rev. rom. Agric., Vitic., Arboric. 8. 1952, 65—67, 2 fig.

Raschewskaja, W. F., and Nilowa, W. P., (Influence of catalase activity on the resistance of wheat to brown rust infection.) [Puccinia triticina] (Bull. Acad. Sci. USSR) nr. 4. 1952, 63—67.

Raul da Silva, A., El concepto de raza fisiológica en el mejoramiento del trigo relativo a la resistencia a las royas de la hoja y tallo. [Puccinia rubigo-vera tritici, P. graminis tritici] Arch. fitotécn. Uruguay, Montevideo, 5. 1952, 131—136.

Rosen, H. R., Intermediate reaction to race 45 of crown rust, and rust-escaping qualities exemplified in the new Bond derivative, Arkwin. Phytopathology 42. 1952, 17 (Abstr.).

Rosser, D., Spica — a new wheat variety. [rust-resistant] Queensl. agric. J. 75. 1952, nr. 1, p. 1—5, 3 fig.

Rowell, J. B., and DeVay, J. E., Factors and results in the partial-vacuum inoculation of seedling corn with Ustilago zeae. Phytopathology 42. 1952, 17 (Abstr.).

Sakata, H., (Effect of »dithane dust«, against the leaf rust of naked barley.) Kyushu Noji Shikenjo 10. 1952, 139.

Sanchez Potes, A., Control de las royas del maiz y trigo con espolvoreaciones. [Puccinia] Agronomia, Monterrey (España), 20. 1952, 7—8.

Schestakow, W. E., and **Guljaew, G. W.,** (Fall planting of summer wheat.) [incidence of smut] Selektsiia i Semenovodstvo (Select., Seed Growg.), Moskwa, 19. 1952, nr. 7, p. 58—60.

Sharp, E. L., and **Smith, F. G.,** The influence of pH and zinc on vesicle formation in Puccinia coronata avenae corda. Phytopathology 42. 1952, 581—582, 2 fig.

Shebeski, L. H., and **Wu, Y. S.,** Inheritance in wheat of stem rust resistance derived from Agropyron elongatum. Sci. Agric., Ottawa, 32. 1952, 26—35.

Sherf, A., Rusts in grain crops. Iowa State Coll. agric. Ext. Pamphl. 185. 1952, 4 p.

Shurowenkow, B. G., and **Wolkow, S. T.,** (An electrothermic apparatus for disinfecting cereal seed against loose smut.) [Ustilago tritici] Proc. Lenin Acad. agric. Sci. USSR 17. 1952, nr. 10, p. 17—21, 1 fig.

Simons, M. D., and **Murphy, H. C.,** Physiologic specialization in Puccinia coronata Corda var. avenae F. et L. Phytopathology 42. 1952, 474—475.

Skoropad, W. P., and **Johnson, L. P. V.,** Inheritance of resistance to Ustilago nuda in barley. Canad. J. Bot. 30. 1952, 525—536.

Smeltzer, D. G., Inheritance of resistance to race T-1 of Tilletia caries in Minturki and Cooperatorka wheats. Agron. J., Washington, 44. 1952, 529—533, 1 fig.

Sökmen, Y., Habubatta sürme hastalïği. (Steinbrand bei Getreide.) Tomurcuk, Istanbul, 1952, nr. 1, p. 14—15.

Solowjew, A., and **Poljakow, P.,** (Thermo-chemical treatment in control of wheat and barley smut.) Selektsiia i Semenovodstvo (Select., Seed Growg.), Moskwa, 19. 1952, nr. 10, p. 78—80.

Stapel, C., (The Berberis bush in prosperity and adversity.) Dansk Landbrug, Aarhus, 71. 1952, 218—219.

Stapel, C., (The Berberis case in a new light.) Gartnertidende, København, 68. 1952, 418—419.

Stapel, C., (Control new attacks of black rust; the fight against Berberis is not over.) Gartnertidende, København, 68. 1952, 176—177.

Stapel, C., Paa ny til kamp mot de farlige Berberisbuske. Ugeskr. Landmaend, København, 1952, nr. 21.

Strachow, T. D., (Der pathologische Prozeß bei Pflanzen und die Degeneration der Kornbranderreger. I. Der pathologische Prozeß und die Milieufaktoren.) Mikrobiologiia, Moskwa, 21. 1952, 705—710.

Tanaka, I., Fujii, H., and **Sakata, H.,** (Investigation about the primary infection sources of stem rust: about its oversummering, overwintering and winter outbreak.) Kyushu Noji Shikenjo 10. 1952, 137—138.

Tapke, V. F., Further studies on environment after seedling emergence and other factors that influence the incidence of barley covered smut. [Ustilago] Phytopathology 42. 1952, 117—118, 1 fig.

Tedin, O., och **Hellbo, E.,** Flygsotsfrekvensen hos korn i kontrollodlingar och vid fältbesiktningar. (The frequency of barley loose smut in control plots and in field inspections.) [Ustilago nuda] Sver. Utsädesför. Tidskr., Lund, 62. 1952, 18—31, 1 fig.

Tomiyama, K., (Several factors affecting the Typhula snow blight of winter wheat.) [T. itoana, T. ishikariensis] Ann. phytopath. Soc. Japan 16. 1952, 113—116, 2 fig.

Tyner, L. E., The control of loose smut of barley (Ustilago nuda) by Spergon-SL. Phytopathology 42. 1952, 476.

Tyner, L. E., and **Russell, R. C.,** Control of loose smut in barley by tetrachlor-para-benzoquinone (Spergon-SL). Plant Dis. Reptr. 36. 1952, 180—181.

Urries, M. J., and **Canamas, R.,** Razas fisiológicas de »Puccinia graminis tritici« y »P. rubigo-vera tritici« en España, en el periodo 1950—52. Bol. Inst. Nac. Invest. agron., Madrid, 12. 1952, 593—616.

Valdeyron, Remarques sur l'évolution du charbon interne dans quelques cultures de multiplication de Florence × Aurore en Tunisie. Compt. rend. Acad. Agric. France 39. 1952, 471—474.

Vallega, J., y **Favret, E. A.,** Las royas de los cereales en Argentina. IDIA (Inform. Invest. agríc.), Buenos Aires, 5. 1952, nr. 54, p. 17—39.

Vanderwalle, R., De roest van de tarwe. [Puccinia] Landbouwtijdschrift 5. 1952, nr. 3, 7 p.

Vanderwalle, R., Les rouilles du froment. Rev. Agric. 5. 1952, 211—218.

Vasudeva, R. S., Sun as a means of controlling wheat smut. Indian Farming (n. ser.) 2. 1952, nr. 5, p. 26—27.

Vasudeva, R. S., Lele, V. C., and **Joshi, L. M.,** Occurrence of physiologic races of wheat rusts in India during 1949—50. Indian Phytopath. 5. 1952, 63—65.

Viennot-Bourgin, G., et **Zieglé, J.,** La carie [Tilletia secalis] des grains de seigle en France. Compt. rend. Acad. Agric. France 38. 1952, 729—730.

Volosky de Hernandez, D., Distribución geográfica de las razas fisiológicas de Puccinia graminis tritici en Chile. Simiente, Santiago de Chile, 22. 1952, 113.

Wagner, F., Neue Ergebnisse zur Bekämpfung des Zwergsteinbrandes. Mitt. Biol. Zentralanst. H. 74. 1952, 135—139.

Warmbrunn, K., Untersuchungen über den Zwergsteinbrand. Phytopath. Ztschr. 19. 1952, 441—482, 10 Abb.

Waterhouse, W. L., Australian rust studies. IX. Physiologic race determinations and surveys of cereal rusts. Proc. Linnean Soc. New South Wales 77. 1952, 209—258, 1 tab.

Waterhouse, W. L., Crown rust of oats. Austr. Plant Dis. Recorder 4. 1952, 29.

Watson, I. A., and **Singh, D.,** The future for rust resistant wheat in Australia. J. austr. Inst. agric. Sci. 18. 1952, 190—197.

Welter, R., Étude du naphtol et de quelques-uns de ses dérivés dans la lutte contre Tilletia tritici (carie du Froment). Ind. chim. belge, Bruxelles, 17. 1952, 682—684.

Wilten, W., and **Kramer, C.,** A possible method of controlling brown rust (Puccinia simplex Eriksson) in summer barley.) Jaarb. nat. Com. Brouwgerst, Wageningen, 16. 1952, 43—49.

Woitschischin, N. W., (New rust resistant winter wheat varieties for the foot hills of the northern Caucasus.) Selektsiia i Semenovodstvo (Select., Seed Growg.) Moskwa, 19. 1952, nr. 9, p. 10—14.

Wolf, F. T., Production of indole acetic acid by Ustilago zeae, and its possible significance in tumor formation. Phytopathology 42. 1952, 24 (Abstr.).

Wolf, F. T., The production of indole acetic acid by Ustilago zeae, and its possible significance in tumor formation. Proc. nat. Acad. Sci., Washington, 38. 1952, 106—111.

Woodward, R. W., Holton, C. S., and **Vogel, O. A.,** Dwarf bunt in rye. [Tilletia caries] Plant Dis. Reptr. 36. 1952, 434.

Wu, Y. S., Production of stem-rust sori on albino barley. [Puccinia graminis tritici] Phytopathology 42. 1952, 177—178, 1 fig.

Young jr., H. C., and **Wadsworth, D. F.,** Experimental forecast of wheat leaf rust in Oklahoma for 1952. [Puccinia] Plant Dis. Reptr. 36. 1952, 213.

Black stem rust (Puccinia graminis) in Europe in 1951. Europ., mediterr. Plant Prot. Org., Paris, Misc. Publ. nr. 2. 1952, 3 p.

Haferflugbrand. [Ustilago avenae (Pers.) Jens.] Pflanzenarzt, Wien, 5. 1952, Nr. 2, S. 7, 1 Abb.

Missouri O-205 oats considered to replace Columbia variety. [Puccinia graminis, Ustilago avenae et U. kolleri] Seed World 71. 1952, nr. 11, p. 44—45.

Pflanzenschutz-Kurzkurs. 18. Roggensteinbrand (Kornbrand) (Tilletia tritici f. sp. secalis). Pflanzenarzt, Wien, 5. 1952, Nr. 5, S. 4, 1 Abb.

Vid sveriges utsädesförening samlade erfarenheta från 1951 års svartrostangrepp å vete. [Puccinia graminis] Sver. Utsädesfören. Tidskr., Lund, 62. 1952, 76—151, 15 fig., 1 tab. geogr.

Fungi imperfecti

Abumiya, H., (Effect of passage through a moderately resistant variety of rice on the pathogenicity of Piricularia oryzae.) Ann. phytopath. Soc. Japan 16. 1952, 107—108.

Adyanthaya, N. R., and **Rangaswami, G.,** Distribution of silica in relation to resistance to »blast« disease in rice. [Piricularia oryzae] Madras agric. J. 39. 1952, 198—204, 1 tab.

Andersen, A. L., Development of wheat head blight incited by Helminthosporium sativum. Phytopathology 42. 1952, 453—456, 1 fig.

Andrews, E., and **Klomparens, W.,** Yellow spot of winter wheat in Michigan in 1951. [Helminthosporium tritici-vulgaris] Plant Dis. Reptr. 36. 1952, 10, 5 fig.

Baba, I., Takahashi, Y., and **Iwata, I.,** (Studies on the nutrition of rice with reference to Helminthosporium disease (preliminary report). I. The susceptibility of rice as influenced by the aeration and the kinds of nutrient elements supplied.) Proc. Crop Sci. Soc. Japan 21. 1952, nr. 1—2, p. 98—99.

Baldacci, E., and **Corbetta, G.,** (The disease caused by Sclerotium oryzae.) Riso (Italia) 1. 1952, nr. 6, p. 14—17.

Bockmann, H., Der Einfluß der Stickstoffdüngung auf die Halmbruchkrankheit (Lagerfußkrankheit) des Weizens. [Cercosporella herpotrichoides] Phytopath. Ztschr. 19. 1952, 383—388.

Bruehl, G. W., Temporary sterilization of soil in the evaluation of root and crown rot losses with wheat and barley under field conditions. Plant Dis. Reptr. 36. 1952, 234—237.

Bugnicourt, F., Contribution à l'étude systématique de deux micromycètes parasites du riz. [Trichoconis padwickii, Helicoceras oryzae, Helicoma echinosporium] Rev. gén. Bot., Paris, 59. 1952, 413—420, 2 tab.

Bugnicourt, F., Une espèce fusarienne nouvelle, parasite du riz. [Fusarium annulatum] Rev. gén. Bot., Paris. 59. 1952, nr. 695, p. 13—18, 1 fig., 1 tab.

Casati, S., (Resistance of some strains to Fusarium moniliforme.) Riso (Italia) 1. 1952, nr. 11, p. 11—14.

Chona, B. L., and **Munjal, R. L.,** Glume blotch of wheat in India. [Septoria nodorum] Indian Phytopath. 5. 1952, 17—20, 3 fig.

Ciccarone, A., Alcune osservazioni su Cercospora sorghi E. et E. Boll. Staz. Pat. veg., Roma, 38 (ser. 3) (1950). 1952, 59—67, 2 fig., 1 tab.

Delitala, A., (Corn ear rot due to Fusarium moniliforme.) Inform. Fitopat., Bologna, 2. 1952, 79—80.

Doepel, R. F., Charcoal rot of sorghum and crown rot of jute at Ord River, W. A. [Sclerotium bataticola] Austr. Plant Dis. Recorder 4. 1952, 24—25.

Earhart, R. W., and **Shands, H. L.,** Oat varietal responses to infection by Helminthosporium avenae Eid. Agron. J., Washington, 44. 1952. 234—238, 3 fig.

Gešele, E. E., (Fusariose-Helminthosporiose — Wurzelfäule des Sommerweizens.) Selektsiia i Semenovodstvo (Select., Seed Growing), Moskwa, 19. 1952, nr. 12, p. 51—56.

Goarin, P., Étude de la piriculariose du riz. [Piricularia oryzae] Compt. rend. Insp. gén. Serv. agric., [Strasbourg, Paris], nr. 1. 1952, 96—101, 3 fig.

Gordon, W. L., The occurrence of Fusarium species in Canada. II. Prevalence and taxonomy of Fusarium species in cereal seed. Canad. J. Bot. 30. 1952, 209—251, 4 fig., 1 tab., 11 tab. col.

Goto, S., Septoria black stem of oats in Minnesota. Phytopathology 42. 1952, 466.

Hamilton, D. G., Septoria on oats. Cereal News Jan. 1952, 6—7.

Hirai, T., Goto, H., Kato, H., and **Yasumi, T.,** (Studies on the snow-blight diseases of winter cereals. III. Seasonal changes and varietal difference in content of sugars and nitrogen compounds in wheat plants under snow-cover.) Ann. phytopath. Soc. Japan 16. 1952, 1—5, 5 fig.

Inoue, Y., and **Matsunaga, M.,** (On the glume blight of the rice plant.) [Phoma glumarum] Kyushu Noji Shikenjo 9. 1952, 13—14.

Ishikawa, E., and **Kariya, K.,** (The effect of individual selections to find the lines of disease resistance in F_2 generation of rice hybrids under the conditions of late transplanting in fertilised field.) [blast disease] Jap. J. Breding 2. 1952, 72—74.

Ivanoff, S. S., A rag-doll method for mass testing of oat seeds for resistance to Helminthosporium victoriae. Phytopathology 42. 1952, 12 (Abstr.).

Jenkins, M. T., and **Robert, A. L.,** Inheritance of resistance to the leaf blight of corn caused by Helminthosporium turcicum. Agron. J., Washington, 44. 1952, 136—140.

Jenkins, M. T., Robert, A. L., and **Findley, W. R.,** Inheritance of resistance to Helminthosporium turcicum leaf blight in populations of F_3 progenies. [on maize] Agron. J., Washington, 44. 1952, 438—442, 2 fig.

Johnson, T., Cultural variability in Septoria avenae Frank. Canad. J. Bot. 30. 1952, 318—330, 2 fig., 2 tab.

Kommedahl, T., The incidence of Fusarium- and Rhizoctonia-infected plants in wheat, corn, and oats. Phytopathology 42. 1952, 468—469.

Krishnaswami, C. S., Influence of nitrogen, phosphorus and potash on the incidence of blast disease of rice. [Piricularia oryzae] Madras agric. J. 39. 1952, 205—214.

Landolt, E., Über Welkestoffbildung bei Fusarium culmorum (W. G. Sm.) Sacc. Phytopath. Ztschr. 19. 1952, 126—128, 1 Abb.

Luttrell, E. S., A comparison of Helminthosporium sativum and H. victoriae. Phytopathology 42. 1952, 469.

Machacek, J. E., and **Wallace, H. A. H.,** Longevity of some common fungi in cereal seed. [Alternaria tenuis, Helminthosporium sativum, H. avenae et H. tera, Septoria nodorum] Canad. J. Bot. 30. 1952, 164—169, 5 fig. — Phytopathology 42. 1952, 13—14 (Abstr.).

McKeen, W. E., Phialophora radicicola Cain, a corn rootrot pathogen. Canad. J. Bot. 30. 1952, 344—347, 3 tab.

Moseman, J. G., Colletotrichum graminicolum (Ces.) Wilson on Avena species. Iowa State Coll. J. Sci. 26. 1952, 253—254.

Ono, K., and **Shimada, N.,** (Damage and loss estimation of wheat and barley infested by snow blight.) J. Plant Prot., Tokyo, 33. 1952, 130—131.

Ōtani, Y., (Growth factors and nitrogen sources of Piricularia oryzae Cavara.) Ann. phytopath. Soc. Japan 17. 1952, 9—15, 8 fig.

Ōtani, Y., (Studies on the relation between the principal components of rice plant and its susceptibility to the blast disease.) Ann. phytopath. Soc. Japan 16. 1952, 97—102.

Pichler, F., Über die Prüfung von Roggensorten auf ihre Anfälligkeit für Schneeschimmel (Fusarium). Pflanzenschutzberichte, Wien, 8. 1952, 33—43, 1 Abb.

Pon, D. S., A new light-colored race of Helminthosporium sativum. Phytopathology 42. 1952, 472.

Ramiah, K., Ghose, R. L. M., and **Vachhani, M. V.,** Improvement of rice in India. [Piricularia oryzae] Empire J. exp. Agric. 20. 1952, 161—174.

Reed, H. E., A simple method of testing barley in the field for susceptibility to scald. [Rhynchosporium secalis] Phytopathology 42. 1952, 17 (Abstr.).

Reilly, J. J., Correlation of seedling blight to stalk rot and nature of seedling resistance to Diplodia zeae. Phytopathology 42. 1952, 473.

Rieuf, P., La piriculariose du riz. [Piricularia oryzae] Terre maroc., Casablanca, 26. 1952, 91—93.

Roane, C. W., and **Starling, T. M.,** Scald resistance in Oldambster barley. [Rhynchosporium secalis] Plant Dis. Reptr. 36. 1952, 212—213.

Robert, A. L., Cultural and pathogenic variability in single-conidial and hyphal-tip isolates of Helminthosporium turcicum pass. US Dept. Agric. Techn. Bull. 1058. 1952, 18 p.

Robert, A. L., and **Findley jr., W. R.,** Diseased corn leaves as a source of infection in artificial and natural epidemics of Helminthosporium turcicum. Plant Dis. Reptr. 36. 1952, 9—10.

Rosella, E., Une altération des grains fréquente en 1951. La moucheture et la bouture des céréales. [Alternaria, Helminthosporium] Phytoma, Paris, 5. 1952, nr. 38, p. 23—24.

Rosen, H. R., and **York, J. O.,** Arkwin, a new winter pasture oat for Arkansas. [resistant against Helminthosporium blight] Arkansas Farm Res. 1. 1952, nr. 2, p. 4.

Sechet, Présence de la piriculariose du riz. Agron trop., Nogent-sur-Marne, 7. 1952, 152.

Silva, M. V. E., Directrizes para o melhoramento do arroz. [Piricularia oryzae] Minist. Econ., Com. Regul. Comércio Arroz, Lisboa 1952. 75 p., 11 fig.

Sprague, R., Contribution to the life history and control of snow molds of winter wheat in Washington. Phytopathology 42. 1952, 475.

Stoner, W. N., The effects of various phosphorus and potassium fertilizer applications on the incidence and severity of Helminthosporium leaf blight of sweet corn. Proc. Florida State hortic. Soc. 64 (1951). 1952, 131—133.

Subba Rao, N. V., Some organo-mercury compounds of amides and imides as fungicides. [against rice foot rot (Fusarium moniliforme)] J. sci., ind. Res., Delhi, 11 B. 1952, 8—9.

Suzuki, H., and **Shigematsu, K.,** (Slag as an internal therapeutant of blast disease of rice plant.) J. Plant Prot., Tokyo, 37/38. 1952, 294—297.

Tanaka, S., and **Katsuki, F.,** Biochemical studies on the susceptibility of rice plants to the blast disease. III. [Piricularia oryzae] J. chem. Soc. Japan (Pure Chem. Sect.) 73. 1952, 868—870.

Tanaka, S., Katsuki, H., and **Katsuki, F.,** (Biochemical studies on the blast disease of rice plant. IV. Effect of different nitrogen sources in the culture media upon the nutritional absorption of the blast disease fungus.) Ann. phytopath. Soc. Japan 16. 1952, 103—108, 4 fig.

Tanaka, S., and **Yoda, A.,** The metabolism of the organism of Helminthosporium disease of the rice plant. J. chem. Soc. Japan 73. 1952, nr. 1, p. 8—10, 3 fig.

Tochinai, Y., and **Ui, T.,** Studies on the helminthosporiosis of cereals in Hokkaido (1). Influence of environmental conditions on the footrot of the seedlings. [Helminthosporium gramineum, H. sativum] Mem. Fac. Agric. Hokkaido Univ. 1. 1952, 113—126, 1 fig.

Togliani, F., (Experiments in control of Fusarium foot rot.) Riso (Italia) 1. 1952, nr. 10, p. 14—16.

Togliani, F., Un nemico della risaia. (An enemy of the rice-field, Fusarium moniliforme Sh.) Riso (Italia) 1. 1952, nr. 3, p. 21—22, 2 fig.

Toyoda, S., Suzuki, N., (Histochemical studies on the lesions of rice blast caused by Piricularia oryzae Cav. I. Some observations on the sporulations on lesions of different types occurring on leaves of the same variety.) Ann. phytopath. Soc. Japan 17. 1952, 1—4, 4 fig.

Venkatakrishnaiah, N. S., Ephelis on Echinochloa crus-galli Beauv. and Setaria italica Beauv. Phytopathology 42. 1952, 634—635, 1 fig.

Vincent, A., Ponchet, J., et **Koller, J.,** Recherche de variétés de blés tendres peu sensibles au piétin-verse: résultats preliminaires. [Cercosporella herpotrichoides] Ann. Amélior. Plantes, Paris, 2. 1952, 459—472, 2 fig.

Wells, H. D., and **Allison, J. L.,** Tall fescue seed can carry net blotch fungus. [Helminthosporium dictyoides] Proc. Assoc. south. agric. Workers 49. 1952, 177.

Étude de la piriculariose du riz. [Piricularia oryzae] Compt. rend. Rech. agron. Madagscar 1952, nr. 1, p. 96—101, 3 fig.

Varia

Dickson, J. G., General corn rust and leaf blight infection in Wisconsin. [Puccinia sorghi, Helminthosporium turcicum] Plant Dis. Reptr. 36. 1952, 350.

Ghosh, J. J., Changes in the phytin-phosphorus content of rice grains during mould attack. [Aspergillus, Penicillium, Mucor, Cladosporium, Alternaria] Indian J. Physiol. 6. 1952, 102—106.

Gorlenko, M. W., (Corn diseases in the Moscow area.) [Penicillium griseo-roseum, Fusarium] Selektsiia i Semenovodstvo (Select., Seed Growg.), Moskwa, 19. 1952, nr. 5, p. 79—80.

Koyama, S., and **Tamura, T.,** (Studies on the ear-blight of Italian millet.) Kyushu Noji Shikenjo 10. 1952, 180—181.

Mizukami, T., On the Helminthosporium disease resistance of rice seedlings treated with ether vapour. II. The effects of the ether treatment upon the growth of rice seedlings and of Ophiobolus miyabeanus Ito et Kuribayashi. III. On the depression of transpiration rate and Helminthosporium disease resistance of rice seedlings treated with ether vapour. IV. On the relation of the permeability of rice leaf and the development of the affected part. V. Pathohistologic observations on rice leaf with respect to the development of lesion of this disease. Sci. Bull. Fac. Agric. Kyushu Univ. 12. 1952, 177—180, 181—184, 299—303, 305—308, 10 fig.

Nilsson, L., Gräsmjöldagg, en aktuell parasit. (Grass mildew, a topical parasite.) [Erysiphe graminis, Puccinia graminis] Försög och Forskn., Stockholm, 9. 1952, nr. 8—9, p. 63. — Växtskyddsnotiser, Stockholm, 16. 1952, 40—41.

Roth, E. R., Eradication and thinning tests for Nectria and Strumella canker control in Maryland. Proc. Assoc. south. agric. Workers 49. 1952, 134 (Abstr.).

Ullstrup, A. J., Leaf blights of corn. Indiana agric. Exp. Stat. Bull. 572. 1952, 22 p.

Ullstrup, A. J., Observations on crazy top of corn. [Sorosporium, Sclerospora] Phytopathology 42. 1952, 675—680, 2 fig.

Vanderwalle, R., Le piétin du froment. Rev. Agric., Bruxelles, 5. 1952, 367—371.

Warmbrunn, K., Schneeschimmel und Steinbrand drohen! Württ. Wochenbl. Landw. 119. 1952, 831.

Yukawa, Y., and Huzii, S., The effects of urea on the growth of Gibberella saubinetii Sacc. and Piricularia oryzae Br. et Cav. Bull. Fac. Agric. Yamaguti Univ. 3. 1952, 7—14.

Field experiments, 1950. [Helminthosporium avenae, Ustilago avenae, Tilletia caries] Journal, Dept. Agric. Éire, 48 (1951). 1952, 193—212.

Schneeschimmel und Steinbrand drohen! Bad. landw. Wochenbl. 119. 1952, 656.

Sugar sorgo research at Houma, Louisiana. [Colletotrichum graminicola, Gloeocercospora sorghi, Puccinia purpurea] Sugar Bull., [New Orleans], 30. 1952, 392, 399.

Saatgut-Beizung
Seed disinfection
Désinfection de semences

(Siehe auch — see also — voyez aussi p. 321.)

Anderson, W. E., Seed rice for sale should be treated. Rice J. (south. Farmer), New Orleans, 55. 1952, nr. 2, p. 32.

Andrén, F., Resultat av 1950—51 års betningsförsök i stråsäd. Växtskyddsnotiser, Stockholm, 16. 1952, 8—11.

Andrén, F., (Treat fall crop seeds!) Lantmannen, [Uppsala], 36. 1952, 625—626.

Andrén, F., (Treatment of spring seeds.) Lantmannen, [Uppsala], 36. 1952, 207—208.

Arny, D. C., The bioassay of Ceresan M on treated oat kernels. Phytopathology 42. 1952, 222—223.

Arny, D. C., and Wade, E. K., Seed treatment for oats, barley, wheat rye, and corn. Wisconsin agric. Coll. Ext. Circ. 416. 1952, 10 p.

Baldacci, E., Disinfestazione del riso lavorata. Riso (Italia) 1. 1952, nr. 3, p. 27—28, 3 fig.

Becker, A., Vermeidet Fehler bei der Getreidebeizung! Landw. Ztschr. Nord-Rheinprov. 119. 1952, 1028, 2 Abb.

Brentzel, W. E., Seed treatments. North Dakota agric. Exp. Stat. Bull. 376. 1952, 25 p. — Bi-mon. Bull. North Dakota agric. Exp. Stat. 14. 1952, 122—167.

Costa, J. J., Un nuevo producto para evitar la carie de los cereales: el hexacloruro de bencene. (A new material for eliminating bunt of cereals: hexachlorobenzene.) Rev. argent. Agron. 19. 1952, 44—51, 1 fig.

Cronshey, J. F. H., Range of uses for seed dressings. Fruit Grower, London, 2934. 1952, 528—529. (Abstr.).

Da Silva, A. R., (Two different diseases — farmers should disinfect their wheat seeds.) Lavoura e Criação, Rio de Janeiro, 7. 1952, nr. 45, p. 22—23.

Dubinewitsch, B. N., (Disinfecting seeds of highgrade barley against smut.) Selektsiia i Semenenovodstvo (Select., Seed Growing), Moskwa, 19. 1952, nr. 10, p. 73—75.

Duffield, P. C., Combination insecticide-fungicide seed treatments for corn. J. econ. Ent. 45. 1952, 672—674.

Elomaa, A., Viljan peittauskokeiden tuloksia vuosilta 1928—1950. (Results of cereal seed treatment experiments with disinfectants during the years 1928—1950.) Valt. Maatalousk. Tiedon. (Repts. finn. State agric. Res. Board), Helsinki, nr. 226. 1952, 43 p.

Engelhard, J., L'application mécanisée des traitements fongicides aux semences. Motoris. agric., Paris, 7. 1952, 219, 221, 223.

Ewing, J. T., Barley is freed of loose smut. [new hot water treatment of seed] Family Herald, weekly Star (Canada) 83. 1952, nr. 39, p. 6.

Hansing, E. D., Panogen and Vancide 51 compared with standard seed treatments for control of wheat, oat, and sorghum smut in Kansas. Phytopathology 42. 1952, 10 (Abstr.).

Hansing, E. D., Panogen and Vancide 51 compared with standard seed treatments on control of Victoria blight of oats and emergence of wheat, oats, and sorghum in Kansas. Phytopathology 42. 1952, 10 (Abstr.).

Harrison, T. J., Treat seed barley for smut. Prod. and Play April 1952, 3—8.

Hashioka, Y., (Simplification of the rice seed disinfection and application of arasan.) [Piricularia oryzae, Ophiobolus miyabeanus] J. Plant Prot., Tokyo, 4. 1952, 173—175.

Henry, A. W., Miller, R. L., and Peterson, E. A., Control of covered smut of wheat by rapid seed treatment with an antibiotic. Science, Lancaster, 115. 1952, 90—91.

Holton, C. S., and Woo, J. Y., Seed-treatment tests for bunt control in winter and spring wheats in 1952. Plant Dis. Reptr. 36. 1952, 424.

Johnson, J. R., Corn seed treatment studies — the effects of a series of seed protectants on repression of fungi in and on corn seed and their effect on growth of seedling corn. Proc. Assoc. south. agric. Workers 49. 1952, 144.

Johnson, J. R., The effects of a series of seed protectants on repression of fungi in and on corn seed and their effect on growth of seedling corn. Phytopathology 42. 1952, 284 (Abstr.).

Juscafresa, B., Prácticas erróneas o acertadas en la desinfección de semillas. Ceres, [Valladolid], 17. 1952, nr. 195, p. 34—35.

Keilholz, G., Keine Herbstbestellung ohne Saatgutbeizung! Landw. Wochenbl. 142. 1952, 1056.

Leben, C., and Arny, D. C., Seed treatment experiments with helixin B. Phytopathology 42. 1952, 469.

Leib, E., Beiträge zur Wirtschaftlichkeit des Pflanzenschutzes. Beizversuch gegen Weizensteinbrand mit einem neuen quecksilberfreien Trockenbeizmittel. Gesunde Pflanzen 4. 1952, 198—200, 3 Abb.

Leukel, R. W., and Webster, O. J., Seed treatment tests on sorghum in 1952. Plant Dis. Reptr. 36. 1952, 426.

Machacek, J. E., Tests of newer seed treatments — 1951. Plant Dis. Reptr. 36. 1952, 178—179.

Marcus, Saatgutbeizung nicht vergessen! Bereits im Herbst kombinierte Beizmittel zu erwarten. Landw. Wochenbl. Kurh., Waldeck 167. 1952, 267—268.

Miles, G. F., Protect those seeds. Pacific Grange Farmer 1952, 8.

Miller, R. T., Seed treatment is good business. East. Feed Merchant 3. 1952, nr. 2, p. 24—25, 67.

Moore, M. B., and Olien, C. R., Mercury bichloride solution as a surface disinfectant for cereal seeds. Phytopathology 42. 1952, 471.

Naccamuli, S., (Seed disinfection.) Inform. Fitopat., Bologna, 2. 1952, 49—52.

Pichler, F., Eine Methode der Beizmittelprüfung gegen Schneeschimmel (Fusarium) im Laboratorium. Pflanzenschutzberichte, Wien, 8. 1952, 3—10, 4 Abb.

Pichler, F., Wann versagt die Saatgutbeize? Pflanzenarzt, Wien, 5. 1952, Nr. 10, S. 2—3.

Pichler, F., Zur Methodik der Beizmittelprüfung auf Keimschädlinge. Pflanzenschutzberichte, Wien, 8. 1952, 118—123, 1 Abb.

Pindur, W., Getreidesaatgut beizen! Bauer (Oesterr.) 5. 1952, nr. 28, p. 14—15.

Richards, B. L., Manzate effects single control of multiple fungous diseases. South. Seedsman (Texas) 15. 1952, nr. 2, p. 34—35.

Rottmann, G., Heißwasserbeizung. [Getreidebrand] Hannov. land-, forstw. Ztg. 105. 1952, 830.

Russell, R. C., The »drowning treatment« for loose smut of barley. Proc. canad. phytopath. Soc. nr. 20. 1952, 21 (Abstr.).

Schmaljko, W. S., (Preservation of seeds of naked oats.) Selektsiia i Semenovodstvo (Select., Seed Growing), Moskwa, 19. 1952, nr. 5, p. 72—73.

Schrader, Zur Herbstaussaat beizen! Hannov. land-, forstw. Ztg. 105. 1952, 1002.

Schumacher, Denkt an die Reinigung und Beizung des Saatgutes! Landw. Ztschr. Nord-Rheinprov. 119. 1952, 230, 1 Abb.

Schumilenko, E. P., Effectiveness of Niuif-2 (Granosan) compound in control of grain seed diseases) Selektsiia i Semenovodstvo (Select., Seed Growing), Moskwa, 19. 1952, nr. 10, p. 67—70.

Starnes, O., and Filmer, R. S., Treat bean and corn seeds to prevent injury by soil-inhabiting pests. New Jersey agric. Coll. Ext. Leafl. 78. 1952, 4 p.

Stolze, K. V., Reinigung und Beizung des Saatgutes. Landw.bl. Weser-Ems 99. 1952, 231—233.

Teichmann, Dynamal. [seed treatment] Neue Mitt. Landw. 67. 1952, 74.

Tsymbal, M. M., and Jakimenko, T. W., (Use of feed steamer ZK-0,5 for single-phase heat disinfection of wheat and barley seeds.) Selektsiia i Semenovodstvo (Select., Seed Growing), Moskwa, 19. 1952, nr. 5, p. 66—69.

Valder, P. G., Disinfection of rice seed. Austr. Plant Dis. Recorder 4. 1952, 40.

Van Vliet, H., Ontsmetting, bescherming van zaaizaad, poot- en plantgoed. Tuinbouwgids, Den Haag, 1952, 251—253.

Wabnitz, G., Ein Fortschritt in der Saatgutbeizung. Landw. Wochenbl. München 142. 1952, 215—216.

Walker, A. J. K., Trials with a new chemical for bunt control. [hexachlorobenzene (HCB)] J. Dept. Agric. South Austr. 55. 1952, 548—550.

Warmbrunn, K., Sommergetreide beizen! Württ. Wochenbl. Landw. 119. 1952, 211.

Zimmermann, Kein Saatkorn ungebeizt in den Boden! Landw. Wochenbl. Kurh., Waldeck 167. 1952, 1010.

I. Verzeichnis geprüfter und anerkannter Getreide-Trockenbeizmittel. II. Verzeichnis geprüfter und anerkannter Getreide-Naßbeizmittel. Biol. Bundesanst. Merkbl. Nr. 2. 1951, 4. Aufl., 2 S.

Het ontsmetten van zomergranen. [Treatment of summer grain.] Plantenziektenkdg. Dienst, Wageningen, Ber. 979. 1952, 2 p.

Unkräuter
Weeds — Mauvaises herbes

Aaftink, E., and Schipstra, K., (Weed control with DNC in winter grains.) Boerderij 37. 1952, nr. 9, p. 7. — Drents Landb.bl. (Nederland) 33. 1952, nr. 47, p. 7.

Arai, M., and Kawasima, R., (Studies on weed control in rice culture by 2, 4-dichlorophenoxyacetic acid. I.) J. Kanto-Tosan agric. Exp. Stat. 3. 1952, 8—22.

Arashi, K., and Kunitake, M., (Studies on the distribution of the weeds on the drainaged paddy field cultivating winter crops in Tikugo Plain.) Kyushu Noji Shikenjo 9. 1952, 113—114.

Bareis, G., Gelbspritzmittel im Getreidebau. [2, 4 D] Dtsch. landw. Presse 75. 1952, 72, 4 Abb.

Becker, A., Bekämpfung des Windhalms und des Ackerfuchsschwanzes im Wintergetreide. Landw. Ztschr. Nord-Rheinprov. 119. 1952, 1279, 1 Abb.

Benoist, Le désherbage sélectif des rizières. Bouches Rhône agric. (France) 24. 1952, nr. 1076, p. 6.

Bonaventura, G., (Observations on the weed seeds in wheat grown in Romagna.) Nuovo Giorn. bot. ital. 58. 1952, 407—414.

Boyce, J. H., One year's experience with preemergence treatments with CMU and other herbicides in the control of weeds in corn and soybeans. Proc. canad. nat. Weed Comm., East. Sect., 5 (1951). 1952, 32—33.

Cartier, R. D., Nouvelle méthode de désherbage du maïs. Terre chez nous (Canada) 24. 1952, nr. 10, p. 10.

Cattle, F. P., Weed control in cereals. J. Inst. Corn, agric. Merch., London, 3. 1952, 170—171.

Ciferri, R., Effetto del diserbo parziale e totale a mano e chimico selettivo sul frumento. Not. Mal. Piante nr. 19. 1952, 4—6.

Clausing, H., Gelbspritzmittel im Getreidebau. [U 46] Dtsch. landw. Presse 75. 1952, 120.

Cohen, G., (The control of winter weeds in field crops.) Hassadeh, Tel Aviv, 33. 1952, 71—72.

D'Cruz, R., A note on the control of scums in the paddy fields. Poona agric. Coll. Mag. (India) 42. 1952, 265.

De Rege, F., (Chemical control of weeds.) Riso (Italia) 1. 1952, nr. 3, p. 13—15.

Deshpande, R. B., Pohli — an »armed« enemy of the farmer. [a spiny weed in field crops] Indian Farming 2 (n. ser.). 1952, nr. 9, p. 12—13.

Ehara, K., and **Abe, S.,** (Studies on the wild Japanese barnyard millet as a weed in the low-land ricefield. VI—VII.) Proc. Crop Sci. Soc. Japan 21. 1952, 61—64.

Fenaroli, L., Una nouva avventizia, infestante le risaie (Ottelia alismoides Pers.). (A new weed of the rice fields (Ottelia alismoides Pers.).) Ann. Sperim. agr., Roma, 6 (n. ser.). 1952, XI—XIX, 3 fig.

Goile, H., Über die Unkrautbekämpfung mit Hormonpräparaten im Getreide. Dtsch. Landw. 3. 1952, 146—147, 2 Abb.

Grancini, P., Ricerche sul diserbo del riso nel 1951. Not. Mal. Piante nr. 19. 1952, 50—58.

Grancini, P., (Spraying for weed control in rice fields.) [Italy] Boll. Agric., Milano, 86. 1952, nr. 12. p. 1-2.

Harvey, W. A., Weed control in rice with MCP. Down to Earth, Midland (Michigan), 8. 1952, 10—11.

Helm, C. A., Weed control in corn through use of chemicals. Missouri agric. Coll. Ext. Circ. 619. 1952, 7 p.

Hubert, K., Maßnahmen zur Bekämpfung der Unkräuter im Getreide. Pfl.schutzamt Sachsen-Anhalt Merkbl. Nr. 64. 1952, 3. Aufl., 8 S., 2 Abb.

Husson, J., À propos du désherbage des céréales aux hormones. Bas-Rhin agric. (France) 7. 1952, 202.

Jacobson, G., (Now is the time to spray mayweed in winter grain.) Lantmannen 36. 1952, 723—724, 728.

Jahn, S., Über die »Bindung« bestimmter Unkräuter an die Wintergetreidearten. Mitt. florist.-soziol. Arb.-Gem., Stolzenau, N. F. 3. 1952, 113—122.

Kasahara, Y., Some tests on the use of 2, 4-dichlorophenoxyacetic acid for controlling weeds in paddy fields. Ber. Ohara-Inst. landw. Forsch., Kurashiki, 9. 1952?, H. 4.

Lovely, W. G., Sylwester, E. P., Staniforth, D. W., Collins, E. V., and **Bakke, A. L.,** How to control weeds in corn. Iowa Farm Sci. 6. 1952, nr. 11, p. 17/185—20/188, 4 fig.

Mann, H. H., and **Barnes, T. W.,** The competition between barley and certain weeds under controlled conditions. V. Competition with clover considered as a weed. Ann. appl. Biol. 39. 1952, 111—119.

Müller, H., Unkrautbekämpfung im Getreidebau. Bundesminist. Ernährg., Landw., Forsten, Frankfurt/M. 1952, Sdr.-H., S. 17—22, 3 Abb.

Naundorf, G., Lucha contra el arroz rojo con derivados del 2, 4-D mediante avionetas de fumigación. Agrotecnia (Cuba) 7. 1952, 44—50. — Acta agron. (Colombia) 2. 1952, 151—159, 5 fig.

Nørlund, S., (The field must be kept under control in order to get grain.) [weed control] Husmandshjemmet (Danmark) 2. 1952, nr. 15, p. 8.

Olson, P. J., Controlling weeds in the barley crop. Prod. and Play June 1952, 3—8.

Olson, P. J., Weed control in barley by chemical and other means. Agric. Inst. Rev., Ottawa, 7. 1952, nr. 2, p. 29—30.

Ordanini, P., (Notes on the use of selective herbicides in the rice fields.) Nuova Agr. milan. 3. 1952, nr. 12, p. 1.

Ordanini, P., (Selective herbicides and wheat.) Nuova Agr. milan. 3. 1952, nr. 5, p. 3.

Ormrod, J. F., To spray or not to spray; some notes on selective weed control in cereal. Herefordshire agric. J. (Engl.) 12. 1952, 229, 231, 233, 235, 237.

Pfeiffer, R., Die chemische Bekämpfung des Ackerhohlzahns — ein Weg zu höheren Erträgen im alpenländischen Getreidebau. [Galeopsis speciosa] Pflug, Wien, 5. 1952, 33—36.

Phillips, W. M., Weed control in fall sown grain. North Centr. Weed Control Conf. Res. Rept. 9. 1952, 85.

Piacco, R., (Use of plant hormone herbicides. II. Weed control tests with Agroxone 10.) [weed control in rice fields] Riso (Italia) 1. 1952, nr. 5, p. 21—22.

Piacco, R., (Wheat weed control with hormones.) Giorn. agric., Roma, 62. 1952, 103.

Ramiah, R. V., Rice land weeders from Japan. Indian Farming (n. s.) 2. 1952, nr. 7, p. 9.

Ramirez-Sánchez, A., Control de malezas en cereales. Simiente, Santiago de Chile, 22. 1952, 115—122.

Raul, A., (Weeds of wheat fields.) Seleç. agríc. (Brasil) 7. 1952, nr. 70, p. 53—54.

Rogenhofer, E., Einige seltenere Unkrautsamen im Saatgut. Bodenkultur, Wien, 6. 1952, Sdr.-H. 3, S. 69—71, 3 Abb.

Saint-Quentin, M., Le désherbage des céréales par les hormones. Rustica (France) 25. 1952, 382.

Schober, K., Unkrautbekämpfung im Sommergetreide mit Klee-Einsaat. Pflanzenarzt, Wien, 5. 1952, Nr. 4, S. 1—2.

Shaw, D. E., Hormone weedicide on wheat. Austr. Plant Dis. Recorder 4. 1952, 1—2.

Slife, F. W., Factors affecting results of pre-emergence treatments of the soil for weed control in corn with 2, 4-dichlorophenoxyacetic acid. [abstract of Thesis-University of Illinois] Urbana 1952. 6 p.

Tomaselli, R., Prove di deserbo del riso con partite commerciali diverse de un prodotto a base di Methoxone. Not. Mal. Piante nr. 19. 1952, 40—43.

Tomaselli, R., Rilievi fitosociologici sull' efficacia diserbante del »2, 4-D« sulla flora messicola del frumento in Pavia. (Phytosoziologische Erhebungen über die unkrauttötende Wirkung des 2, 4-D auf die Weizenflora bei Pavia.) Riv. Ecol., Perugia, 2. 1952, 64—86.

Ujvárosi, M., Experimente auf Äckern zur Untersuchung der unkrautbekämpfenden Wirkung der verschiedenen Getreidesaaten. Acta agron. hung., Budapestini, 2. 1952, 149—207.

Warmbrunn, K., Die chemischen Unkrautbekämpfungsmittel im Getreide. Württemb. Wochenbl. Landw. 119. 1952, 314.

Warren, J. C. R., and **Bronson, D. R.,** Maleic hydrazide and other chemicals for the control of wild oats in grain. Proc. canad. nat. Weed Comm., East. Sect., 5 (1951). 1952, 67—72.

Willard, C. J., Corn. North Centr. Weed Control Conf. Res. Rept. 9. 1952, 93—97.

Conseils pour le désherbage sélectif des céréales. Phytoma, Paris, 5. 1952, nr. 37, p. 23.

Les **désherbants sélectifs** sauveront des millions de quintaux de grains en 1952. Phytoma, Paris, 5. 1952, nr. 35, p. 5.

Die **Unkrautbekämpfung** im Wintergetreide mit Kalkstickstoff. Landw. Ztschr. Nord-Rheinprov. 119. 1952, 131.

Weed control in paddy (departmental leaflet). Trop. Agric., Trinidad, 108. 1952, 196—199.

d. Tierische Feinde
Animal parasites — Parasites animaux

Nematodes

Atkins, J. G., Studies of white tip of rice and its control in Louisiana. [Nematodes] Rice J. (south. Farmer) New Orleans, 55. 1952, nr. 11, p. 8—10, 31.

Atkins jr., J. G., and **Todd, E. H.,** Laboratory screening of chemicals for control of rice white tip. [Aphelenchoides oryzae] Phytopathology 42. 1952, 463.

Borg, Å., Angrepp av nematoder på havre. [Heterodera major, Ditylenchus dipsaci] Växtskyddsnotiser, Stockholm, 16. 1952, 69—74, 2 fig.

Cralley, E. M., Control of white tip of rice. [Aphelenchoides oryzae] Arkansas Farm Res. 1. 1952, 6.

Cralley, E. M., and **French, R. G.,** Studies on the control of white tip of rice. [Aphelenchoides oryzae] Phytopathology 42. 1952, 6 (Abstr.).

Fukano, H., and **Yokoyama, S.,** (Studies on the disinfection of rice seed for control of white tip. II. Results of simplified hot-water treatment.) [nematodes] Ann. phytopath. Soc. Japan 16. 1952, 141—143, 1 fig.

Goto, K., and **Fukatsu, R.,** (Studies on white tip of rice plant caused by Aphelenchoides oryzae Yokoo. II. Number and distribution of the nematode on the affected plants.) Ann. phytopath. Soc. Japan 16. 1952, 57—60, 2 fig.

Homeyer, B., Die Älchenkrankheit des Roggens. Landw. Wochenbl. Westf., Lippe 109 A. 1952, 910.

Kiryu, T., Nishizawa, T., and **Yamamoto, S.,** (Studies on the varietal resistance of rice plant to the white tip caused by nematode Aphelenchoides oryzae Yokoo. I. Studies on the testing of varietal resistance.) Ann. phytopath. Soc. Japan 16. 1952, 6—9.

Nishizawa, T., and **Yamamoto, S.,** Studies on the varietal resistance of rice plant to the rice nematode disease »Senchu Shingare Byo«. V. Kyushu Noji Shikenjo 9. 1952, 11—12.

Savary, A., Les nématodes nuisibles aux cultures de céréales. [Ditylenchus dipsaci] Rev. rom. Agric., Vitic., Arboric. 8. 1952, 35, 1 fig.

Seinhorst, J. W., Een nieuwe methode voor de bepaling van de vatbaarheid van roggeplanten voor aantasting door stengelaaltjes (Ditylenchus dipsaci (Kühn) Filipjev). (A new method for testing the susceptibility of rye plants to attack by the stem eelworm Ditylenchus dipsaci (Kühn) Filipjev.) Tijdschr. Plantenziekten 58. 1952, 103—108, 6 fig. (Meded. Inst. plantenziektenkdg. Onderz. nr. 44).

Sprau, F., Zur Feststellung des Hafernematoden (Heterodera avenae). Pflanzenschutz, München, 4. 1952, 95—96.

Todd, E. H., Further studies on the white tip disease of rice. Proc. Assoc. south. agric. Workers 49. 1952, 141 (Abstr.).

Todd, E. H., and Atkins jr., J. G., Laboratory culture of the rice white tip nematode, and inoculation studies. Phytopathology 42. 1952, 21 (Abstr.).

Van der Vecht, J., and Bergman, B. H. H., Studies on the nematode Radopholus oryzae (van Breda de Haan) Thorne and its influence on the growth of the rice plant. Pemb. Balai Besar Penj. Pert. (Contrib. gen. agric. Res. Stat.), Bogor (Indonesien), nr. 131. 1952, 82 p., 24 fig.

Wagner, F., Über Auftreten und Bekämpfung des Haferälchens (Heterodera avenae). Pflanzenschutz, München, 4. 1952, 83—85, 2 Abb.

Arthropoda

Alkan, B., Biologie, Schäden und Bekämpfung von Getreidewanzen (Eurygaster integriceps Put. und Aelia rostrata Boh.) in der Türkei. Trans. IXth int. Congr. Ent., Amsterdam, 1 (1951). 1952, 623—626.

Anderson, L. D., Bacon, O. G., Swift, J. E., and Reynolds, H. T., Corn earworm (Heliothis armigera) control on sweet corn; DDT leads list of effective insecticides with methods of application as dust or spray important factors. Calif. Agric., Berkeley, 6. 1952, 8—9, 15.

Anderssen, E. E., Control measures against insect pests in mealies. Farmer's Weekly, Bloemfontein, 82. 1952, 53.

Barnes, H. F., Studies of fluctuations in insect populations. XII. Further evidence of prolonged larval life in the wheat-blossom midges. XIII. An improved method of ascertaining the correct date to sample when assessing larval infestations of the wheat-blossom midges. Ann. appl. Biol. 39. 1952, 370—373, 1 fig.; 374—378, 2 fig.

Beck, E. W., Bradley, W. G., Wilbur, D. A., and Decker, G. C., Status of research on control of other corn insect pests. [Pyrausta nubilalis, Diatraea grandiosella, Blissus leucopterus] Proc. amer. Assoc. econ. Entomologists, North Centr. States Br., 7. 1952, 54—56.

Benlloch, M., La polilla de los cereales. Bol. mens. Saragossa (Prov.) Cám. ofic. Agríc. 54. 1952, 21—24.

Bissell, T. L., Armyworms (Cirphus unipuncta) and cutworms on corn in Maryland. Canning Trade, Baltimore, 75. 1952, 10.

Blanchard, R. A., Results of recent corn earworm (Heliothis armigera) research. Proc. amer. Assoc. econ. Entomologists, North Centr. States Br., 7. 1952, 64—66.

Boerger, A., Verheerendes Auftreten der Getreidelaus Schizaphis graminum in den La-Plata-Ländern. Anz. Schädl.kunde 25. 1952, 183—186, 6 Abb.

Böttcher, H., Der Getreidelaufkäfer und seine Bekämpfung. [Zabrus tenebrioides] Dtsch. Landw. 3. 1952, 537—538, 2 Abb.

Bollow, H., Fliegen und Mücken als Getreideschädlinge. Bayer. Landesanst. Pfl.bau, Pfl.schutz, München, Merkbl. Nr. 11. 1952, 6 S., 41 Abb.

Bollow, H., Körnerschäden an Hafer durch die Fritfliege (Oscinella frit L.). Pflanzenschutz, München, 4. 1952, 115—116, 1 Abb.

Burkhardt, C. C., Feeding and pupating habits of the fall armyworm in corn. J. econ. Ent. 45. 1952, 1035—1037, 6 fig.

Carilli, A., La Sesamia e la Piralide. Note biografiche, infestazione e danni da loro causati alle coltivazioni di granturco in provincia di Salerno. [Sesamia cretica, Pyrausta nubilalis] Boll. Lab. Ent. Agr. »Filippo Silvestri«, Portici, 11. 1952, 99—108, 2 fig.

Chiappelli, R., (Control of parasites.) Riso (Italia) 1. 1952, nr. 6, p. 26.

Compton, C. C., Fletcher, F. W., and Lilly, J. H., Progress of investigations on control of soil-inhabiting pests of cereal crops. Proc. amer. Assoc. econ. Entomologists, North Centr. States Br., 7. 1952, 49—54.

Cronshey, J. F. H., Pests of wheat and autumn-sown crops. Dunns Seed Wheats, Autumn Cereals, Forage Crops 1952, 18—20.

Dorfschmid, M., Untersuchungen an Hafer über den Befall durch die Flitfliege (Oscinella frit L.). Ztschr. Acker-, Pfl.bau 95. 1952, 183—218, 12 Abb.

Eden, W. G., Control of corn earworm [Heliothis armigera] in sweet corn. Alabama agric. Exp. Stat. Leafl. nr. 32. 1952, 4 p.

Eden, W. G., Control of corn earworm in sweet corn in Alabama. J. econ. Ent. 45. 1952, 105—108.

Farstad, C. W., Influence of wheat varieties on the wheat stem sawfly, Cephus cinctus. Trans. IXth int. Congr. Ent., Amsterdam, 1 (1951). 1952, 287—288.

Fedotov, D. M., und Bočarova, O. M., (Über die Wirkung eines DDT-Präparates auf die Wanze Eurygaster integriceps.) Zool. Žh. (Zool. J.) 31. 1952, 528—537.

Fenton, F. A., and **Dahms, R. G.,** Attempts at controlling the greenbug [Toxoptera graminum] by the importance and release of lady beetles [Hippodamia convergens] in Oklahoma. Proc. Oklahoma Acad. Sci. 32. 1952, 49—51.

Frediani, D., Contributo alla conoscenza della Sesamia cretica Led. (Lepidoptera-Noctuidae). Boll. Lab. Ent. Agr. »Filippo Silvestri«, Portici, 11. 1952, 51—98, 30 fig.

Frézal, P., Punaises des blés. [chiefly Aelia germari] Rev. agric. Afr. Nord 50. 1952, 400—404.

Gaines, J. C., and **Hanna, R. L.,** Southern corn rootworm [Diabrotica undecimpunctata howardi] control. Texas agric. Exp. Stat. Progr. Rept. 1473. 1952, 2 p.

Geering, Q. A., A cotton stainer (Dysdercus superstitiosus Fabr.) as a potential pest of sorghum. Empire J. exp. Agric. 20. 1952, 234—239.

Giljarow, M. S., (Rice culture as a measure for controlling the soil inhabiting pests in the Volga-Don -District.) [soil insects] Dokl. Akad. Nauk SSSR. 87. 1952, 853—855.

Golightly, W. H., Soil sampling for wheat-blossom midges. Ann. appl. Biol. 39. 1952, 379—384, 1 fig.

Gómez Clemente, F., y **Del Rivero, J. M.,** Contribución al conocimiento de la biología y medios de lucha contra el barrenador del arroz, Chilo suppressalis Wlk. (Simplex Btlr.). Bol. Pat. veg., Ent. agríc., Madrid, 19. 1951—52, 161—188, 7 fig.

Goto, S., Gibler, J. W., and **Buzicky, A.,** Whitehead of oats in Minnesota 1950—51. Plant Dis. Reptr. 36. 1952, 151—152, 1 fig.

Gunderson, H., and **Lilly, J. H.,** Control corn rootworms (Diabrotica longicornis). Iowa State Coll. Agric. Ext. Pamphl. 178. 1952, 4 p.

Gurr, L., Notes on Nysius huttoni F. B. White, a pest of wheat in New Zealand. New Zealand. Sci. Rev. 10. 1952, 108—109 (Abstr.).

Hayslip, N. C., Corn earworm (Heliothis armigera) control, formulations. Florida Entomologist 35. 1952, 51—56.

Hill, C. C., Cartwright, W. B., and **Wiebe, G. A.,** Barley varieties resistant to the Hessian fly. Agron. J., Washington, 44. 1952, 4—5.

Hofmaster, R. N., and **Greenwood, D. E.,** Fall armyworm [Laphygma frugiperda] control on young sweet corn. Veg. Growers News 7. 1952, nr. 6, p. 2.

Hofmaster, R. N., and **Greenwood, D. E.,** The true armyworm and its control. Veg. Growers News 6. 1952, nr. 11, 2 p. (Agric. Bull. (Shell) 2 p.)

Horovitz, S., Marchioni, A. H., Fisher, H. G., Nico, R. A., y **Sivori, E. M.,** Informaciones experimentales complementarias sobre la resistencia a la langosta en el maïz. Rev. argent. Agron. 19. 1952, 208—213.

Ito, Y., (On the population increase and migration in three species of barley aphids. Studies on the mechanisms of ecological segregation in barley aphids. 1.) Oyo-Kontyu (Nippon Soc. appl. Ent.), Tokyo, 7. 1952, 169—176.

Iyatomi, K., Sugino, T., (Application of 2, 4-D to rice paddy field and the influence on the population of rice stem borer.) [Chilo simplex] J. Plant Prot., Tokyo, 33. 1952, 120—121.

Jacobson, L. A., and **Farstad, C. W.,** Effect of time of seeding Apex wheat on infestation and sex ratio of the wheat stem sawfly, Cephus cinctus Nort. (Hymenoptera: Cephidae). Canad. Entomologist 84. 1952, 90—92.

Jones, E. T., Heyne, E. G., and **Schmidt, J. W.,** A new source of wheat jointworm [Harmolita tritici] resistance in wheat. Trans. Kansas Acad. Sci. 55. 1952, 427—430.

Kaneko, T., and **Fukazawa, N.,** (Rice stem borer (Chilo simplex Butler) developed by feeding barley.) Oyo-Kontyu (Nippon Soc. appl. Ent.), Tokyo, 7. 1952, 182.

Kato, M., (On paper covered seed bed of rice plant and insect pests.) J. Plant Prot., Tokyo, 34. 1952, 162—165.

Kato, M., Matsuda, R., and **Yamasita, Z.,** Associative ecology of insects found in the paddy field cultivated by various planting forms. Tôhoku Univ., Sendai (Japan), Sci. Rept. (ser. 4) 19. 1952, 291—301.

Kelsheimer, E. G., Some reasons why we have wormy sweet corn. [Heliothis armigera] Proc. Florida State hortic. Soc. 65. 1952, 162—163.

Knowlton, G. F., and **Tibbetts, T.,** The brown wheat mite in Utah. [Petrobia latens] J. econ. Ent. 45. 1952, 130.

Koltermann, Bekämpfung der Larven der Queckeneule mit Hexamitteln. [an Weizen] Gesunde Pflanzen 4. 1952, 116.

Koone, H. D., Maturity of corn and life history of the Angoumois grain moth. J. Kansas ent. Soc. 25. 1952, 103—105.

Koreishi, K., Kido, Y., and **Nogaki, K.,** (A forecasting method of rice stem borer [Chilo simplex] in Kumamoto Prefecture.) Kyushu Noji Shikenjo 10. 1952, 162.

Koyama, T., (Control of paddy borer with folidol E-605.) J. Plant Prot., Tokyo, 36. 1952, 273—275.

Kulash, W. M., Field and laboratory tests for controlling wireworms (Elateridae) in field corn. Proc. Assoc. south. agric. Workers 49. 1952, 87—88.

Kuwayama, S., On the fauna of insects injurious to the rice plant in Japan. Trans. IXth int. Congr. Ent., Amsterdam, 1 (1951). 1952, 805—809.

Langer, R., Die Getreide-Ameise, eine mittelmeerländische Art im Rheintal. Natur u. Volk 82. 1952, 295—298, 2 Abb.

Le Pelley, R. H., and **Goddard, W. H.,** On the control by insecticides of Heteronychus consimilis Kolbe (Dynastidae), a serious pest of wheat in Kenya. [tests with benzene hexachloride and aldrin] Bull. ent. Res. 43. 1952, 403—406.

Liebermann, J., Dos especies de grillos, plagas temporarias en los cultivos de cereales tempranos en Entre Rios. [Scapteriscus didactylus, Gryllus fulvipennis] Almanaque Minist. Agric., Buenos Aires, 26/27. 1951—1952, 165—168.

Lilly, J. H., and **Gunderson, H.,** Fighting the corn rootworm. Iowa Farm Sci. Febr. 1952, 4 p., 1 fig. (Agric. Bull. (Shell) ADB: 140, 4 p., 1 fig.)

Lodos, N., Eurygaster integriceps Put'un Coğrafi Yayılışı Hakkında. Bitki Koruma Bült. (Bull. Plant Prot.), Ankara, 1952, nr. 4, p. 19—22, 1 fig., 2 tab. geogr.

Lodos, N., Türkiye'de Yeni bir süne paraziti: Alophora (Phorantha) supcoleopterata L. (Un nouveau parasite Eurygaster integriceps (Souné) en Turquie: Alophora (Phorantha) subcoleopterata L.) Bitki Koruma Bült. (Bull. Plant Prot.), Ankara, 1952, nr. 2, p. 23—26, 3 fig.

Miyake, T., (Occurrence of rice stem borer [Chilo simplex] and leaf hoppers in 2, 4-D treated in rice field.) J. Plant Prot., Tokyo, 37/38. 1952, 311—312.

Mori, T., and **Yamaguchi, T.,** (Effect of the simple forecasting method to the control of rice stem borer.) [Chilo simplex] Kyushu Noji Shikenjo 10. 1952, 160—161.

Nishio, Y., Coleoptera found in the paddy fields of the north temperate region of Japan. Coleopterists' Bull., Dryden (N. Y.), 6. 1952, 58—60.

Olalquiaga Faure, G., y **Cortés P., R.,** Insectos que afectan el cultivo del trigo en Chile. Simiente, Santiago de Chile, 22. 1952, 101—111.

Owen, W. L., Hanna, R. L., and **Gaines, J. C.,** Insecticidal control of greenbugs (Toxoptera graminum). Texas agric. Exp. Stat. Progr. Rept. 1952, 1438.

Painter, R. H., Jones, E. T., and **Heyne, E. G.,** Hessian fly resistance of ponca wheat. J. econ. Ent. 45. 1952, 778—783, 2 fig.

Rutschky, C. W., Oils and insecticides for earworm [Heliothis armigera] control on sweet corn. Pennsylv. agric. Exp. Stat. Progr. Rept. 65. 1952, 4 p.

Sankar, D. V. S., and **Sarma, P. S.,** Studies on biotin. IV. Uric acid excretion in the rice moth larva (Corcyra cephalonica St.). J. sci., ind. Res., Delhi, 11 B. 1952, 394—395.

Seliwanowa, S. N., and **Zhukowskij, A. W.,** Effect of irrigation, shelterbelts and forage grasses on pests of spring wheat. [Oscinella frit, Phytophaga destructor] Dokl. Vsesoĭuzn. Akad. Sel'skohoz. Nauk im. V. I. Lenina (Proc. Lenin Acad. agric. Sci.) 17. 1952, 37—43.

Tapia, E. A., Dos pulgones perjudiciales a los cultivos de cereales. [Toxoptera graminum, Aphis maidis] Res, Buenos Aires, 20. 1952, 26847.

Taylor, F., The maize-stalk borer. [Busseola fusca] Farming South Afr. 27. 1952, 306.

Taylor, F., The maize-stalk borer in the eastern Orange Free State. [Busseola fusca] Farming South Afr. 27. 1952, 450, 452.

Thames jr., W. H., Corn earworm (Heliothis armigera) control, timing and number of applications. Florida Entomologist 35. 1952, 47—50.

Tjoa Tjien Mo, Putul, kumbang-lundi padi gogo (Holotrichia helleri Brsk.). (Putul, the upland rice cockchafer.) Pemb. Balai Besar Penj. Pert. (Contrib. gen. agric. Res. Stat.), Bogor (Indonesia), nr. 130. 1952, 34 p., 4 fig.

Uehara, H., (Control of rice stem borer [Chilo simplex] with BHC or DDT.) J. Plant Prot., Tokyo, 36. 1952, 271—272.

Vermes, M., (Pest control of cereals and fodder plants.) Hassadeh, Tel Aviv, 32. 1952, 220—221.

Wall, A., The diameter of the wheat stem in relation to the length and sex of emerging sawfly (Cephus cinctus Nort.). Sci. Agric., Ottawa, 32. 1952, 272—277.

Wene, G. P., Relation of corn earworm resistance in sweet corn to efficiency of insecticide sprays. J. econ. Ent. 45. 1952, 931—933.

Wilbur, D. A., Effectiveness of dusts containing piperonyl butoxide and pyrethrins in protecting wheat against insects. J. econ. Ent. 45. 1952, 913—920.

Wilbur, D. A., Effects of the moisture content of wheat on the toxicity of insecticidal dusts containing piperonyl butoxide and pyrethrins. J. Kansas ent. Soc. 25. 1952, 121—125.

Wilson, J. W., Corn earworm (Heliothis armigera) control — spraying methods. [with DDT] Florida Entomogolist 35. 1952, 3—9.

Wilson, J. W., Thames, W. H., and **Hauslip, N. C.,** Corn earworm (Heliothis armigera) control; summary and recommendations. Florida Entomologist 35. 1952, 57—61.

Winogradow, P. W., (Combating the pests of Setaria italica.) Selektsiia i Semenovodstvo (Selection and Seed Growing), Moskwa, 19. 1952, nr. 4, p. 70—75.

Winogradow, P. W., (Summer wheat damaged by the grain insect Tychius [tomentosus].) Selektsiia i Semenovodstvo (Select. and Seed Growing), Moskwa, 19. 1952, nr. 10, p. 78.

Yarnell, S. H., Breeding for resistance to the earworm (Heliothis armigera) in sweet corn. Proc. Assoc. south. agric. Workers 49. 1952, 106—107.

Yoshimeki, M., Kato, M., and **Tomita, G.,** Serological studies of some ecological strains of the rice stem borer, Chilo simplex Butler. Tôhoku Univ., Sendai (Japan), Sci. Rept. (ser. 4) 19. 1952, 335—338.

Yuasa, H., Studies on resistance in rice plant to rice stem maggot, Chlorops oryzae Matsumura. (Bull. Nat. Inst. agric. Sci., ser. C (Plant Path., Ent.), Nishgahiara, 1952, nr. 1, p. 257—279, 5 fig.

Zacher, F., Pulverförmige Bekämpfungsmittel gegen Getreideschädlinge. Ent. Kolloquium 22. 1952, 10 S.

Zenjakin, L. A., and **Kozhewnikowa, G. W.,** (Dusting seeds of grain crops with benzene hexachloride as a method for controlling wireworms.) Sowjetsk. Agron., Moskwa, 10. 1952, nr. 8, p. 83—86.

Das **Auftreten von Zweiflügler**(Dipteren)-Larven als Getreideschädlinge im Frühjahr 1952. Pflanzenschutz, München, 4. 1952, 79—80, 3 Karten.

Deutscher Pflanzenschutz hilft Japans Bauern. Besucher aus Japan überall — »Nachbarhilfe« der Tat gegen den Reisstengelbohrer — Haß über den Eisernen Vorhang — Hilfsbereitschaft von Hof zu Hof. [Reisstengelbohrer] Landw. Wochenbl. Kurh., Waldeck 167. 1952, 975.

Den **gula vetemyggan.** [Contarinia tritici] Stat. Växtskyddsanst., Stockholm, Flygbl. nr. 98 (rev. ed. nr. 67, 1943). 1952, 4 p., 2 fig.

Protect your garden corn from earworms (Heliothis armigera). US Dept. Agric. Leafl. 284. 1952, 4 p.

Pyrausta nubilalis

Andersen, K. Th., Temperatur und Feuchtigkeit als Faktoren der Lebensdauer überwinternder Larven des Zünslers Pyrausta nubilalis Hübn. und Thigmotaxis, Phototaxis und Hygrophilie als ökologische Faktoren. Ztschr. angew. Ent. 33. 1952, 162—168, 3 Abb.

Apple, J. W., Corn borer development and control on canning corn in relation to temperature accumulation. J. econ. Ent. 45. 1952, 877—879, 1 fig.

Arbuthnot, K. D., and **Wright, J. M.,** Parasites of the European corn borer in Illinois. Trans. Illinois State Acad. Sci. 44. 1952, 222—234.

Beck, E. W., Estimates of damage by the European corn borer to grain corn in the United States in 1951. US Bur. Ent., Plant Quar. coop. econ. Insect Rept., Spec. Rept. 1. 1952, nr. 5, 2 p.

Beck, E. W., Status of the European corn borer in 1951. US Bur. Ent., Plant Quar. coop. econ. Insect Rept., Spec. Rept. 1. 1952, nr. 3, p. 67—85.

Beck, E. W., Bradley, W. G., Wilbur, D. A., and **Decker, G. C.,** Status of research on control of other corn insect pests. [Pyrausta nubilalis, Diatraea grandiosella, Blissus leucopterus] Proc. amer. Assoc. econ. Entomologists, North Centr. States Br., 7. 1952, 54—56.

Bradley, W. G., The European corn borer (Pyrausta nubilalis). US Dept. Agric. Yearb. Agric. 1952, 614—621, 1 fig.

Carilli, A., La Sesamia e la Piralide. Note biografiche, infestazione e danni da loro causati alle coltivazioni di granturco in provincia di Salerno. [Sesamia cretica, Pyrausta nubilalis] Boll. Lab. Ent. Agr. »Filippo Silvestri«, Portici, 11. 1952, 99—108, 2 fig.

Chiang, H. C., and **Hodson, A. C.,** Relation between egg mass abundance and fall populations of first-generation corn borer and justification for insecticidal control in field corn. J. econ. Ent. 45. 1952, 320—323, 2 fig.

Ferraro, A., (Two corn pests: Pyrausta nubilalis and Sesamia cretica.) Frutticolt. Campana (Italia) 2. 1952, nr. 8, p. 1.

Fickewirth, E., Beitrag zur Bekämpfung des Maiszünslers Pyrausta nubilalis Hb. Anz. Schädl.kunde 25. 1952, 84—85.

Grandori, R., (Basis for logical control of the Pyralidae of corn.) Boll. Zool. agr. Bachicolt., Torino, 18. 1952, 11—20.

Hall, I. M., Observations on Perezia pyraustae Paillot, a microsporidian parasite of the European corn borer (Pyrausta nubilalis). J. Parasitol., Lancaster, 38. 1952, 48—52.

Hawkins, J., and **Devitt, J. J.,** Forecasting hatching levels of the European corn borer. J. econ. Ent. 45. 1952, 203—209, 3 fig.

Hibbs, E. T., An investigation of European corn borer (Pyrausta nubilalis) populations as related to corn planting dates. Ohio State Univ. Abstr. Doct. Diss. 63. 1952, 113—116.

Holdaway, F. G., Progress in corn borer control. Minnesota Seed Grower 25. 1952, 4—5.

Jelmoni, E., (Compulsory control of pyralid and topping of corn.) Coltiv. Giorn. vinic. ital., Casale Monferrato, 98 (n. ser.). 1952, 108—109.

Luckmann, W. H., and **Decker, G. C.,** A corn plant maturity index for use in European corn borer ecological and control investigations. J. econ. Ent. 45. 1952, 226—232, 4 fig.

Narayanan, E. S., and **Venkatraman, T. V.,** Technique of mass multiplication of Stenobracon deesae (Cam.) Hymenoptera: Braconidae for use against sugarcane and maize borers. Proc. indian Acad. Sci. (Sect. B.) 36. 1952, 12—18.

Neiswander, C. R., Fluctuations in corn borer population levels. [in Ohio] Proc. amer. Assoc. econ. Entomologists, North Centr. States Br., 7. 1952, 58—61.

Parks, T. H., The Lydella (stabulans griscens) fly is »catching up« with the European corn borer (Pyrausta nubilalis). Ohio Farmer 209. 1952, nr. 3, p. 20—21.

Questel, D. D., and **Gertler, S. I.,** Laboratory tests of toxicity of some organic compounds to the European corn borer (Pyrausta nubilalis), 1947 to 1952. US Bur. Ent., Plant Quar. E-840. 1952, 12 p.

Rodriguez, J. G., and **Price, W. A.,** How to control the European corn borer (Pyrausta nubilalis). Kentucky agric. Coll. Ext. Circ. nr. 495. 1952, 8 p.

Starr, D. F., Ferguson, P., and **Schulz, J. T.,** Corn borer (Pyrausta nubilalis) control with ryania and other insecticides. Canning Trade, Baltimore, 74. 1952, nr. 42, p. 17—18, 20, 22, 29.

Starr, D. F., Schulz, J. T., and **Ferguson, P.,** Results of field tests on use of ryania insecticides in corn borer control. I-II. Agric. Chem., Baltimore, 7. 1952, nr. 5, p. 69, 71, 73, 117; nr. 6, p. 46—47, 135.

Steinhaus, E. A., Microbial infections in European corn borer larvae held in the laboratory. J. econ. Ent. 45. 1952, 48—51.

Taylor, G. S., Stalk-rot development in corn following the European corn borer. Phytopathology 42. 1952, 20—21 (Abstr.).

Weibel, D. E., and **Painter, R. H.,** European corn borer (Pyrausta nubilalis) attacks Kansas and Nebraska sorghum. Crops and Soils, Madison, 4. 1952, nr. 4, p. 22.

Wolf, D., Don't put all your borers in the Lydella fly basket. [Pyrausta nubilalis parasites] Hoard's Dairyman 97. 1952, 24.

Biologische Bekämpfung von Maisbohrern in den USA. (Ref.) Schädlingsbekämpfung 44. 1952, 41—42.

European corn borer. Minnesota Off. State Ent. Inform. Bull. 4. 1952, 1 p.

The **European corn borer** and its control in the North Central States. Iowa State Coll. Agric. Ext. Pamphl. nr. 176. 1952, 8 p.

Vertebrata

Barrera, A., Informe relativo a los estudios efectuados sobre la plaga de ratas de campo (Sigmodon hispidus) que ataca al maiz en la region sur del Estado de Veracruz. Fitófilo, San Jacinto (México), 6. 1952, nr. 4, p. 4—10.

e. Virus

Atkinson, R. E., Studies on viruses of cereal grains. Diss. Abstr. 12. 1952, 375 (Mimeopr.).

Biraghi, A., Ulteriore contributo alla conoscenza del »nanismo ruvido« del mais. (Further contribution to the knowledge of »rough dwarf« of maize.) Ann. Sperim. agr., Roma, 6 (n. ser.). 1952, 1043—1053, 1 fig., 6 tab.

Fellows, H., Sill jr., W. H., and **McKinney, H. H.,** Relative abundance of wheat yellow streak-mosaic virus in leaves, crowns, and roots of the wheat plant. [Marmor virgatum var. typicum McK.] Plant Dis. Reptr. 36. 1952, 319—320.

Fenne, S. B., and **Roane, C. W.,** Wheat mosaic in Virginia. Plant Dis. Reptr. 36. 1952, 212.

Goto, S., (The morbid change caused by the yellow dwarf of rice plant.) Kuyshu Noji Shikenjo 9. 1952, 15—16.

Hashioka, Y., (Varietal resistance of rice to brown spot and yellow dwarf. (Studies on pathological breeding of rice. VI.)) [Cochliobolus (Ophiobolus) miyabeanus, Nephotettix bipunctatus cincticeps] Jap. J. Breedg. 2. 1952, 14—16.

Hirai, T., Koshimizu, Y., and **Koiwa, T.,** (Chemical nature of the intercellular inclusions in wheat plants caused by Triticum virus 1 A.) Virus (Japan) 2. 1952, 257—262, 1 tab.

Houston, B. R., and **Oswald, J. W.,** A mosaic disease of wheat, barley, and oats new to California. Phytopathology 42. 1952, 12 (Abstr.).

Koehler, B., Bever, W. M., and **Bonnett, O. T.,** Soil-borne wheat mosaic. Illinois agric. Exp. Stat. Bull. 556. 1952, 567—599, 15 fig., 1 tab. geogr.

Moore, M. B., The cause and transmission of blue dwarf and red leaf of oats. [Rhopalosiphum prunifoliae, Macrosiphum granarium] Phytopathology 42. 1952, 471 (Abstr.).

Oswald, J. W., and **Byron, R. H.,** Barley yellow-dwarf, a virus disease of barley, wheat, and oats readily transmitted by four species of aphids. Phytopathology 42. 1952, 15 (Abstr.).

Oswald, J. W., and **Houston, B. R.,** Host range and epidemiology of the cereal yellow-dwarf virus in California. Phytopathology 42. 1952, 518 (Abstr.).

Sill jr., W. H., Effects of various temperatures upon symptomatology of wheat yellow streak-mosaic virus. Phytopathology 42. 1952, 474.

Slykhuis, J. T., Virus diseases on cereal crops in South Dakota. South Dakota agric. Exp. Stat. Techn. Bull. 11. 1952.

Slykhuis, J. T., Wheat mosaic in South Dakota. Proc. canad. phytopath. Soc. nr. 19. 1952, 18—19 (Abstr.).

Stoner, W. N., Leaf fleck, an aphid borne persistent virus disease of maize. Phytopathology 42. 1952, 683—689, 2 fig.

3. Kartoffeln und Rüben
Potatoes and beets — Pommes de terre et betteraves

Scheibe, K., Unkrautbekämpfung im Hackfruchtbau. Bundesminist. Ernährg., Landw., Forsten, Frankfurt/M. 1952. Sdr.-H.

a. Kartoffeln
Potatoes — Pommes de terre

Allgemeiner Teil
General part — Partie générale

Bolle, F., Frühsorten spritzen! Bauernbl. Schlesw.-Holst. 6./102. 1952, 771.

Bonde, R., Peikert, F. W., and **Brown, R. L.,** Potato spraying with low gallonage high concentration equipment. Maine agric. Exp. Stat. Mimeogr. Rept. nr. 24. 1952, 9 p.

Boyd, A. E. W., Potato haulm destruction; the position in Scotland. Scot. Agric., Edinburgh, 1952, 204—207.

Brandt, H., Über die im Jahre 1951 in Bayern angelegten Schauversuche zur Förderung des Pflanzgutwechsels bei Kartoffeln. Pflanzenschutz, München, 4. 1952, 13—18, 12 Abb.

Braun, H., Die Bewertung von Krankheiten in den »Frankfurter Bedingungen 1950«. Kartoffelbau, Hamburg, 3. 1952, 119—120, 140—141, 159—160, 183—184.

Bremer, K., Förderung des Kartoffelbaues. Derzeitiger Stand und weitere Aufgaben. Kartoffelbau, Hamburg, 3. 1952, 167—171.

Burton, W. G., Studies on the dormancy and sprouting of potatoes. II. The carbon dioxide content of the potato tuber. New Phytologist, Cambridge, 50. 1952, 287—296.

Cooper, D. C., Rieman, G. H., Hougas, R. W., Stokes, G. W., and **Gasiorkiewicz, E. C.,** Mycorrhizalike mycelium in potato tubers. Phytopathology 42. 1952, 25 (Abstr.).

Del Cañizo, J., Pulverización de patatares. ASPAS (España) 4. 1952, 12—14.

Drees, H., Leichtsinnig oder fahrlässig verminderte Kartoffelerträge. Kartoffelbau, Hamburg, 3. 1952, 83.

Dürkheim, K. v., Schädigt das frühzeitige Absterben der Kartoffelstauden den Pflanzwert ihrer Knollen? [Krankheiten] Rhein. Bauernztg. 6. 1952, 123—124.

Evans, J. A., Manzate on tomatoes and potatoes. Food Packer, New York, 33. 1952, 40, 52, 1 fig.

Faber, W., Henner, J., Schönbrunner, J., und **Wenzl, H.,** Wichtige Krankheiten und Schädlinge der Kartoffel. Bundesanst. Pfl.schutz, Wien 1952. 25 Farbtaf.

Fabiani, L., La degenerazione ecologica della patata. Humus, Milano, 3. 1952, nr. 3, p. 9—10, 1 fig.

Ferguson, W. C., A new spray adhesive for the potato grower. Badger Common 'Tater 5. 1952, nr. 8, p. 11.

Fernando, M., and **Stevenson, G.,** Studies in the physiology of parasitism. XVI. Effect of the condition of potato tissue, as modified by temperature and water-content, upon attack by certain organisms and their pectinase enzymes. Ann. Bot., London, 16 (n. ser.). 1952, 103—114.

Fischnich, Bestimmung der Sortenechtheit und Sortenreinheit von Kartoffeln. Landbau-Forsch., Völkenrode, 4. 1952, 82—86, 5 Abb., 1 Taf.

Fjelddalen, J., and **Ramsfjell, T.,** (Brief directions for control of the most important pests and fungus diseases of vegetables and potatoes.) Minneliste Hagedyrkere norske Hageselskap (Norge) 3. 1952, 17—20.

Généreux, H., Les maladies de la pomme de terre. Agriculture 9. 1952, 392—401.

Genzmer, »Keine Wasserstäuberei...«. Eine Ergänzung. Bauernbl. Schlesw.-Holst. 6./102. 1952, 616.

Goossen, H., Zur Feststellung und Bedeutung der Spritzbrühverteilung im Kartoffelbestand. Ztschr. Pfl.krankh. 59. 1952, 339—353, 7 Abb.

Guthrie, J. W., Rod-like particles in extracts from virus-free potato plants. Phytopathology 42. 1952, 466—467.

Hauck, Eine neue Kartoffelkrankheit? Bad. landw. Wochenbl. 119. 1952, 632.

Heuberger, J. W., Organic and copper fungicides for potatoes and their compatibility with DDT. Delaware agric. Exp. Stat. Bull. 274. 1952, 18 p.

Hirt, W., Gunthart, E., und **Mühlethaler, P.,** Rationelles Kartoffelspritzen. Schweiz. landw. Zeitschr. »Grüne« 80. 1952, 546—549.

Höppner, E., Die amtlichen Kartoffelprüfungen im Bundesgebiet. Kartoffelbau, Hamburg, 3. 1952, 25—29.

Höppner, E., und **Geidel, H.,** Die amtlichen Kartoffelprüfungen mit Vorkeimsorten im Bundesgebiet 1952. Kartoffelbau, Hamburg, 3. 1952, 238—241.

Jacks, H., Compatibility of spray materials used in New Zealand on potatoes. Orchardist New Zealand 25. 1952, 16—17.

Jähnl, G., Ergebnisse der Kartoffelversuche des Jahres 1952. [Krankheiten] Vers.ergebn. Bundesanst. alp. Landw., Admont, H. 19. 1952, 17 S.

Janovac, Ž., (The two most important potato diseases in Vojvodina.) Vojvodanski Poljoprivrednik (Yugoslavia) 8. 1952, nr. 12, p. 15—18.

Jeurink, J., Gesundes Kartoffelpflanzgut durch Frührodung. Beobachtungen aus dem niederländischen Pflanzkartoffelbau. Kartoffelbau, Hamburg, 3. 1952, 122—123, 2 Abb.

Johnson, G., and **Schaal, L. A.,** Disease fighter is found in potatoes. [phenolic compounds, chlorogenic acid and tryosine] Colorado Farm, Home Res. (Colorado Stat.) 3. 1952, nr. 2, p. 1—2, 13—14.

Keilholz, Schutz der Pflanzkartoffeln vor Verlusten. Landw. Wochenbl., München, 142. 1952, 1249.

King, L. W., Washington certified seed potatoes. Amer. Potato J. 29. 1952, 53—54.

Kunkel, R., Edmundson, W. C., and **Binkley, A. M.,** Results with potato vine killers in Colorado. Colorado agric. Exp. Stat. Techn. Bull. 46. 1952, 36 p.

Laibach, F., Keimförderung und Keimhemmung bei der Kartoffel. Umschau 52. 1952, 86—87, 2 Abb.

Lemke, H., Ursachen und Abstellung von Fehlern in Kartoffelgutachten. Kartoffelbau, Hamburg, 3. 1952, 203—204, 223—224, 243—244.

Maier-Bode, F. W., Düngung und Schädlingsbekämpfung sichern hohe Ernten. Kartoffelbau, Hamburg, 3. 1952, 1.

Massey jr., P. H., Thompson, H. C., and **Smith, O.,** Varietal susceptibility of potatoes to internal black spot. Amer. Potato J. 29. 1952, 127—135, 3 fig.

Mayenburg, W., Spritzung steigert den Kartoffelertrag. Kärtner Bauer 102. 1952, 141.

Montaldo, A., Principales enfermedades que atacan a la papa. Agric. austr. (Chile) 20. 1952, 114—117.

Olmstedt, T. S., Effects of seed-piece treatment on yields and seed-piece decay of potato. Phytopathology 42. 1952, 26 (Abstr.).

Peters, E. H., The certification of potatoes for seed in Canada. Amer. Potato J. 29. 1952, 85—88.

Riveros, J. E., La producción de tomate y papa; enfermedades que provocan su disminución. Chacra, Buenos Aires, 22. 1952, nr. 254, p. 24.

Rudorf, W., und **Ross, H.,** Grundlagen der Kartoffelzüchtung. [Resistenzzüchtung] Züchter 22. 1952, 119—127.

Schaper, P., Züchtung widerstandsfähiger Kartoffelsorten. Dtsch. landw. Presse 75. 1952, 174, 2 Abb.

Schipstra, K., Aardappelloof doodspuiten. Tuinbouwgids, Den Haag, 1952, 268.

Schleusener, W., und **Goerlitz, H.,** Über den Einfluß verschiedener Anbaumethoden auf Ertrag und Pflanzgutwert der Kartoffel. I. Bericht: Ernte 1950/51. Züchter 22. 1952, 127—134, 1 Abb.

Scriven, W. A., and **Poole, C. M.,** Potato cultivation and spraying. 5. Farm Mech. (England) 4. 1952, 223—225.

Sleesman, J. P., and **Wilson, J. D.,** Up to date on insect and disease control in potatoes. Proc. Ohio Veg., Potato Growers Assoc. 37. 1952, 94—97.

Stevenson, F. J., Inheritance of disease resistance in the potato. Phytopathology 42. 1952, 483 (Abstr.).

Strauß, W., Die Gesunderhaltung unserer Kartoffelfelder, eine vordringliche Maßnahme. Saarländ. Bauernbl. 5. 1952, 138.

Sussex, I. M., Regeneration of the potato shoot apex. Nature, London, 170. 1952, 755—757, 6 fig.

Tedin, O., och **Gelin, O. E. V.,** Kombinerade sort- och mangangödslingsförsök i havre och potatis. Manganese and variety tests in oats and potatoes. Kungl. Lantbruksakad. Tidskr. (Ztschr. Kgl. schwed. Akad. Landw.), Stockholm, 91. 1952, 158—178.

Terman, G. L., Plummer jr., B. E., and **Folsom, D.,** Some effects of arsenical vine killers on potatoes and oats. Maine agric. Exp. Stat. Univ. Maine Bull. 501. 1952, 11 p., 2 fig.

Toxopeus, H. J., (On the possible significance of Solanum demissum in improving the yield of the cultivated potato.) Euphytica, Wageningen, 1. 1952, 133—139.

Vasudeva, R. S., and **Azad, R. N.,** Investigations on potato dieseases and production of disease-free seed potatoes in India. Empire J. exp. Agric., Moçambique, 20. 1952, 293—300.

Verona, O., e **Benvenuti, A.,** Influenza del sodio sullo sviluppo della patata. (Influence of sodium on the development of the potato.) Ann. Sperim. agr., Roma, 6 (n. ser.). 1952, 1441—1446, 1 tab. col.

Völk, J., Bode, O., und **Hauschild, I.,** Untersuchungen zur Frage eines Zusammenhanges zwischen Düngung, Blattlausbesatz und Krankheitsausbreitung in Kartoffelbeständen. I. Mitteilung. Ztschr. Pfl.krankh. 59. 1952, 97—110, 6 Abb.

Weller, K., und **Arenz, B.,** Ergebnisse der Augensteckprüfung in Weihenstephan 1951/52. Kartoffelbau, Hamburg, 3. 1952, 75—77, 2 Abb.

Wenzl, H., und **Demel, J.,** Untersuchungen über den Pflanzgutwert fadenkeimiger Kartoffelknollen. Bodenkultur, Wien, 6. 1952, 41—54, 2 Abb.

Wischtschepan, A. G., and **Melman, M. E.** (Consumer value of canker-resistant potato varieties.) Sad i Ogorod (Orchard and Garden) 12. 1952, 62—66.

Wünscher, Ch., Über den Einfluß der Düngung auf Leistung und Gesundheit der Kartoffel. Ztschr. Acker-, Pfl.bau 94. 1952, 377—421, 4 Abb.

Young, L. C., and **Davies, H. T.,** Potato breeding. Canada Dept. Agric., Exp. Farms Serv., Dom. Exp. Stat. 1952, 29—35, 1 fig.

Young, R. A., and **Milbrath, J. A.,** Control of potato seed-piece decay by seed-piece treatment. Phytopathology 42. 1952, 26 (Abstr.).

Kartoffelkrankheiten. Dtsch. landw. Presse 75. 1952, Nr. 24, Sonderbeil., 6 farb. Taf.

Protect your potato crop the Eastern States way. East. States Farmers' Exch., West. Springfield (Massachus.), 1952, 6 p.

Seed potatoes, the maintenance of pure, healthy and vigorous stocks. Scotl. Dept. Agric., Edinburgh 1952. 107 p., 65 fig.

Nichtparasitäre Krankheiten
Diseases not caused by parasites
Maladies non parasitaires

Belowa, O. D., (Some potato diseases and measures to combat them.) [physiological diseases] Sad i Ogorod (Orchard and Garden) 7. 1952, 68—70.

Coic, Y., La filosité de la pomme de terre. Pomme Terre franç. 15. 1952, nr. 149, p. 3—5.

Eastwood, T., The effect of herbicides upon potatoes used for chipping. Potato Chipper 11. 1952, nr. 12, p. 24, 26, 28, 30.

Ellison, J. H., Internal browning of potatoes as affected by date of planting and storage. Phytopathology 42. 1952, 25 (Abstr.).

Ellison, J. H., and **Smith, O.,** Effects of spraying a sprout inhibitor on potato plants in the field. Proc. amer. Soc. hortic. Sci. 51. 1948, 397—400.

Frediani, D., Influenza esercitata dagli insetticidi organo-sintetici nella germinazione dei tuberi di patata. Ann. Fac. Agr. Univ. Pisa 10 (n. ser.). 1949, 67—77.

Fults, J., Payne, M. G., and **Hay, R. J.,** Interactions of maleic hydrazide and 2, 4-dichlorophenoxy acetic acid as they affect skin color in Red McClure potatoes. J. Colorado-Wyoming Acad. Sci. 4. 1952, 67.

Hoyman, W. G., Relation of water supply to xylem discoloration of potato tubers caused by vine killing. Amer. Potato J. 29. 1952, 113—122, 3 fig.

Kabiersch, W., Mißbildungen bei Kartoffeln durch 2, 4-D-Mittel. Gesunde Pflanzen 4. 1952, 265—268, 3 Abb.

Large, E. C., Trials of substitutes for sulphuric acid for potato haulm killing. I—II. Plant Path., London, 1. 1952, 2—9, 56—59, 1 fig.

Löhnis, M. P., Injury due to excess of manganese to potatoes. Tijdschr. Plantenziekten 58. 1952, 215—219, 4 fig.

Mezzetti, A., (Internal brown spots of potato tubers.) Inform. Fitopat., Bologna, 2. 1952, 149—152.

Mezzetti, A., and **Filocamo, E.,** (Ecologic degeneration of the potato.) Inform. Fitopat., Bologna, 2. 1952, 116—119.

Oostenbrink, M., De aardappelmoeheid. Sticht. Aardappel Studie Centrum (Nederland) Publ. nr. 2. 1952.

Payne, M. G., Fults, J. L., and **Hay, R. J.,** The effect of 2, 4-D treatment on free amino acids in potato tubers. Amer. Potato J. 29. 1952, 142—150, 2 fig.

Persson, B., Abnorm knölbildning hos potatis. [Kindelbildung] Växtskyddsnotiser, Stockholm, 16. 1952, 95—96, 1 fig.

Pumphrey, F. V., and **Harris, L.,** Cracking of Triumph potatoes. Amer. Potato J. 26. 1949, 355—361.

Siebeneick, H., Von der Schadwirkung vorübergehender Trockenheit bei Kartoffeln. Landw. Wochenbl. Westf., Lippe 109 A. 1952, 1249.

Stanton, W. R., Bolting in potatoes. Agriculture, J. Minist. Agric., London, 59. 1952, 333—335.

Steineck, O., Untersuchungen an »durchwachsenen« Kartoffelknollen. Pflanzenschutzberichte, Wien, 9. 1952, 80—99, 2 Abb.

Takatori, F. H., Sparks, W. C., and **Woodbury, G. W.,** A study of simulated hail injury on potatoes. Idaho agric. Exp. Stat. Res. 22. 1952, 15.

Terman, G. L., Plummer, B. E., and **Folsom, D.,** Some effects of arsenical vine killers on potatoes and oats. Maine agric. Exp. Stat. Bull. 501. 1952, 11 p., 3 fig.

Volk, G. M., and **Gammon, N.,** Effect of liming and fertilization on yield and the correction of nutritional leaf roll of Irish potatoes. Florida agric. Exp. Stat. Bull. 504. 1952, 15 p.

Wenzl, H., und **Demel, J.,** Untersuchungen über den Pflanzgutwert fadenkeimiger Kartoffelknollen. Bodenkultur, Wien, 6. 1952, 41—54.

Wiehler, Frostschäden nüchtern betrachten. Hannov. land-, forstw. Ztg. 105. 1952, 544.

Dürreschäden bei Kartoffeln in Süd- und Südwestdeutschland. Mitt. dtsch. Landw.-Ges., Frankfurt/M., 67. 1952, 575.

Some experiments on the control of potash deficiency in potatoes. Journal, Dept. Agric. Éire, 48 (1951). 1952, 68—80.

Pflanzliche Feinde
Vegetal parasites — Parasites végétaux

Ayers, G. W., Studies on Verticillium wilt of potatoes. Amer. Potato J. 29. 1952, 201—205.

Ayers, G. W., Verticillium wilt of potatoes. Phytopathology 42. 1952, 25 (Abstr.).

Baribeau, B., Verticillium wilt and seed potato certification. Amer. Potato J. 29. 1952, 157—159.

Barnes, G. L., and **Muncie, J. H.,** Fungicidal effect of the sodium salts of certain chlorinated phenols on the sclerotia of Rhizoctonia solani on potato tubers. Phytopathology 42. 1952, 512 (Abstr.).

Bazán de Segura, C., Nuevas enfermedades de la papa en el Peru. Esclerotiniosis de la papa. Podredumbre gris de la papa. (New diseases of the potato in Peru. Sclerotiniosis of the potato. Grey mould of the potato.) Estac. Exp. agríc. La Molina, Lima (Perú), Bol. nr. 41. 1952, 9 p., 13 fig.

Belowa, O. D., (Determination for infection of potato by hollow and ring rot.) [Corynebacterium sepedonicum] (Orchard and Garden) 1952, nr. 4, p. 62—64, 1 fig.

Blagodarow, W. A., (Recognizing in the field the potato infected with ring rot.) Selektsiia i Semenovodstvo (Selection and Seed Growing), Moskwa, 19. 1952, nr. 9, p. 48—51.

Boyd, A. E. W., Dry-rot disease of the potato. IV. Laboratory methods used in assessing variations in tuber susceptibility. V. Seasonal and local variations in tuber susceptibility. VI. Varietal differences in tuber susceptibility obtained by injection and riddle-abrasion methods. VII. The effect of storage temperature upon subsequent susceptibility of tubers. [Fusarium coeruleum] Ann. appl. Biol. 39. 1952, 322—329, 1 tab.; 330—338, 1 fig.; 339—350, 1 fig.; 351—357.

Braun, H., Der Pflanzgutwert von alternariakranken Kartoffelknollen. Kartoffelbau, Hamburg, 3. 1952, 77—78, 94—96.

Brockwell, J., Suspected pink rot potato tubers. Austr. Plant Dis. Recorder 4. 1952, 43—44.

Castaño, J. J., Roya de la papa. [Puccinia] Agric. trop. (Columbia) 8. 1952, nr. 9, p. 47—48.

Chattopadhyaya, S. B., A short note on the potato spraying operations in the plains of west Bengal in the year 1950—51. [Alternaria solani] Plant Prot. Bull., New Delhi, 4. 1952, nr. 1, p. 7—8.

Conroy, R. J., Blackleg of potatoes in New South Wales. [Erwinia carotovorum] Agric. Gaz. New South Wales 63. 1952, 534—536.

Conroy, R. J., Powdery mildew of potatoes. Austr. Plant Dis. Recorder 4. 1952, 15.

Eide, C. J., Making potato fungicides pay in Minnesota. Minnesota Farm, Home Sci. 9. 1952, nr. 3, p. 6, 15.

Ejsing, G., New preparations against potato mold and other fungus diseases. Dansk Landbrug, Aarhus, 71. 1952, 306.

Ejsing, G., (Zineb preparations against potato mildew and other fungus diseases.) Gartnertidende, København, 68. 1952, 247.

Emilsson, B., (Potato scab.) Försög och Forskn., Stockholm, 9. 1952, 25—26.

Felix, E. L., Charcoal rot of Irish potato in Tennessee. [Macrophomina phaseoli) Plant Dis. Reptr. 36. 1952, 369.

Foister, C. E., The distribution and prevalence of potato gangrene. [Phoma foveata, Ph. eupyrena] Plant Pathology, London, 1. 1952, 85—86, 1 tab.

Glemmestad, E., (Technical equipment for control of dry-rot of potatoes.) Norsk Landbruk, Oslo, 18. 1952, 292—293.

Guillemat, J., Lelievre, D., et **Montégut, J.,** Essais de fongicides contre la fusariose de la pomme de terre. Pomme Terre franç. 15. 1952, nr. 152 A, p. 3—9.

Harrison, D. E., Occurrence of an atypical strain of Pseudomonas solanacearum in Victoria. Austr. Plant Dis. Recorder 4. 1952, 30.

Hellmers, E., Phoma solanicola Prill. et Del. iagttaget i Danmark. (Phoma solanicola Prill. et Del. in Denmark.) Friesia, København, 4. 1952, 257—261, 4 fig.

Henning, R. G., and **Alexander, L. J.,** Evidence of existence of physiologic races of Alternaria solani (Ell. et Mart.) Jones et Grout. Phytopathology 42. 1952, 467.

Hermant, E., La fusariose de la pomme de terre. Bull. hortic. (Belgique) 7 (n. ser.). 1952, 49—52.

Hooker, W. J., and **Sass, J. E.,** Histological aspects of potato stem necrosis incited by Streptomyces scabies. Amer. J. Bot. 39. 1952, 15—19, 5 fig.

Johnson, G., and **Schaal, A. S.,** Relation of chlorogenic acid to scab resistance in potatoes. [Streptomyces scabies] Science, Lancaster, 115. 1952, 627—629, 4 fig.

Kernkamp, M. F., deZeeuw, D. J., Chen, S. M., Ortega, B. C., Tsiang, C. T., and **Khan, A. M.,** Investigations on physiologic specialization and parasitism of Rhizoctonia solani. Minnesota agric. Exp. Stat. Techn. Bull. 200. 1952, 36 p., 5 fig.

Keyworth, W. G., Verticillium wilt of potatoes in Connecticut 1951. Plant Dis. Reptr. 36. 1952, 16—17.

Khrobrykh, N. D., (Little-known disease of potatoes.) Selektsiia i Semenovodstvo (Selection and Seed Growing), Moskwa, 19. 1952, nr. 1, p. 27—30.

Klinkowski, M., und **Hoffmann, G.,** Eine Methode zur Schorfresistenzprüfung der Kartoffel. Züchter 22. 1952, 92—94, 3 Abb.

Lane, G. H., Studies of dry fungicides on cut potato seed pieces. Phytopathology 42. 1952, 25 (Abstr.).

Letnes, A., (Spraying against dry-rot of potato.) Landbrukstidende (Norge) 58. 1952, 604.

Logsdon, C. E., Inoculation of potatoes with ring rot tissue from different sources. Phytopathology 42. 1952, 25 (Abstr.).

Luz, N. K., (Contribution to the study of control of foliar diseases of American potato.) Rev. agron., Porto Alegre, 16. 1952, nr. 181/183, p. 10—19.

McKee, R. K., Dry-rot disease of the potato. II. Fungi causing dry rot of seed potatoes in Britain. Ann. appl. Biol. 39. 1952, 38—43.

McKee, R. K., and **Boyd, A. E. W.,** Dry-rot disease of the potato. III. A biological method of assessing soil infectivity. Ann. appl. Biol. 39. 1952, 44—54, 1 fig.

Mata Q., E., Exposición en el seminario sobre la »Maya de la papa« organizado por el Ministerio de Agricultura e Industrias en Cartago, el 10 de febrero de 1952. Suelo tico, San José (Costa Rica), 6. 1952, nr. 27, p. 56—58.

Michaelis, W., Rhizoctonia. [potatoes] Praxis u. Forsch. 4. 1952, 53.

Nelson, C. I., and **Parsons, J. L.,** Family relationships in potato ring rot bacteria. Bi-mon. Bull. North Dakota agric. Exp. Stat. 14. 1952, 215—217.

Noble, M., and **Marshall, M.,** A note on black leg of potato. Plant Path., London, 1. 1952, 134.

Oswald, J. W., and **Wright, D. H.,** Potato scab. [Actinomyces scabies] West. Grower, Shipper 23. 1952, nr. 7, p. 65—66.

Patel, M. K., Kulkarni, N. B., and **Kulkarni, Y. S.,** Ring disease [Phytobacterium solanacearum] of potato in India. Curr. Sci., Bangalore, 21. 1952, 47—48.

Rich, A. E., Fungicidal treatment of seed potatoes after cutting. Phytopathology 42. 1952, 26 (Abstr.).

Richardson, J. K., The influence of tuber development on scab infection in Katahdin potatoes. Phytopathology 42. 1952, 297—298, 1 fig.

Richardson, J. K., A simple nephelometer. [for potato scab investigation] Phytopathology 42. 1952, 171, 1 fig.

Richter, H., Zur Rhizoctoniafrage bei der Kartoffel. Kartoffelbau, Hamburg, 3. 1952, 15—16, 4 Abb.

Rieman, G. H., Hougas, R. W., and **Stokes, G.,** Persistence of scab resistance in potato varieties. [Streptomyces scabies] Phytopathology 42. 1952, 26 (Abstr.).

Rushdi, M. K., Antagonism of several isolates of Rhizoctonia solani by a species of Streptomyces. Phytopathology 42. 1952, 473.

Rushdi, M. K., and **Jeffers, W. F.,** Variation in Rhizoctonia solani. Phytopathology 42. 1952, 473—474.

Sanford, G. B., Persistence of Rhizoctonia solani Kühn in soil. Canad. J. Bot. 30. 1952, 652—664.

Schaal, L. A., and **Johnson, G.,** Relation of chlorogenic acid in potato tubers to scab resistance. J. Colorado-Wyoming Acad. Sci. 4. 1952, 71—72 (Abstr.).

Stahl, M., Ein wenig bekanntes Schadbild des Kartoffel-Wurzeltöters. Württ. Wochenbl. Landw. 119. 1952, 1134—1135, 4 Abb.

Tandon, R. N., and **Agarwal, G. P.,** Dry rot of Colocasia antiquorum and potato caused by Fusarium coeruleum (Lib.) Sacc. Allahabad Univ. Stud., Bot., 1956, 26 p., 4 tab.

Thijn, G. A., Potato varieties and powdery mildew attacks. Euphytica, Wageningen, 1. 1952, 84—86.

Vanderwalle, R., Sur un cas d'attaque de gale poudreuse. [Spongospora subterranea] Parasitica, Gembloux, 8. 1952, 15—16, 1 tab.

Venkat Ram, C. S., Soil bacteria and chlamydospore formation in Fusarium solani. Nature, London, 170. 1952, 889.

Warmbrunn, K., Eine gefährliche Kartoffelkrankheit. [Rhizoctonia] Württ. Wochenbl. Landw. 119. 1952, 263.

Wenzl, H., »Blattdürre« der Kartoffel als Erscheinungsform der Colletotrichum-Welkekrankheit. (Vorläufige Mitteilung.) Pflanzenschutzberichte, Wien, 8. 1952, 11—14.

Wenzl, H., »Blattdürre« und »Welkekrankheit« der Kartoffel in den Trockengebieten. Pflanzenarzt, Wien, 5. 1952, Nr. 3, S. 2—3.

Wilson, J. D., Comparative effectiveness in control of early blight on potato and tomato of differently formulated dithiocarbamates. Phytopathology 42. 1952, 23 (Abstr.).

Wright, D. N., Progress report in potato scab fight. West. Grower, Shipper 23. 1952, nr. 12, p. 108—109.

Zadina, J., und **Folk, A.,** (Prüfungen der Kartoffelsorten des Weltsortiments auf die Schorfresistenz.) Sborník českosl. Akad. Zeměd. (Ann. Acad. tchécosl. Agric.), Praha, 25. 1952, 518—525.

Désinfection contre le rhizoctone noir. Fruits, Primeurs Afr. Nord, Casablanca, 22. 1952, 508—509.

Phytophthora infestans

Akeley, R. V., Lombard, P. M., and **Stevenson, F. J.,** Blight-resistant potato varieties can save copper and cut cost of production. Amer. Potato J. 29. 1952, 49—52.

Baptista, C., (Late blight of potatoes.) Bol. Com. regulad. Cereais (Açores) 8. 1952, nr. 16, p. 85—88.

Bazán de Segura, C., El »Hielo« o »Rancha« de la papa en el Perú. Vida agric. Julio 1952, 535—541, 5 fig.

Bazán de Segura, C., Razas fisiológicas de Phytophthora infestans en el Perú. Investigaciones sobre resistencia de especies, variedades e hibridos de papa al P. infestans 1951. (Physiologic races of Phytophthora infestans in Perú. Investigations on the resistance of species, varieties, and hybrids of potato to P. infestans in 1951.) Estac. Exp. agríc. La Molina, Lima (Perú), Bol. 46. 1952, 14 p.

Becker, A., Die Kraut- und Knollenfäule. Die gefährlichste Pilzkrankheit der Kartoffeln. Landw. Ztschr. Nord-Rheinprov. 119. 1952, 514, 1 Abb.

Black, W., A genetical basis for the classification of strains of Phytophthora infestans. Proc. R. Soc. Edinburgh (Sect. B) 65. 1952, 36—51, 1 fig.

Black, W., Inheritance of resistance to blight (Phytophthora infestans) in potatoes: inter-relationships of genes and strains. Proc. R. Soc. Edinburgh (Sect. B) 64. 1952, 312—352, 6 fig.

Black, W., Recent research in potato breeding for blight resistance. Brit. agric. Bull. 5. 1952, nr. 19, p. 15—18.

Blaszyk, P., Ergebnisse einiger Krautfäuleversuche. Praxis und Forsch. 4. 1952, 36—37.

Bolle, F., Erste Krautfäulemeldung. Bauernbl. Schlesw.-Holst. 6./102. 1952, 740.

Bolle, F., Krautfäule-Warndienst in Schleswig-Holstein. Gesunde Pflanzen 4. 1952, 213—215.

Bolle, F., Versuch eines Krautfäule-Warndienstes in Schleswig-Holstein. Nachr.bl. dtsch. Pfl.schutzd., Braunschweig, 4. 1952, 168—170.

Carrera, C. J. M., El cultivo de la papa se resiente ante el ataque de la fitoftora o mildiu. Mundo agríc., Barcelona, 4. 1952, nr. 42, p. 29—30.

Chattopadhayay, S. B., Control of late blight of potato in the hills of Darjeeling district, West Bengal. Sci. and Cult., Calcutta, 17. 1952, 379—380.

Chattopadhyaya, S. B., A short note on the potato spraying operations in the plains of West Bengal in the year 1950—1951. Plant Prot. Bull., New Delhi, 4. 1952, 7—8.

Coronado Padilla, R., El tizon tardío de la papa en el estado de Puebla. Tierra, México, 7. 1952, 602, 634.

Darling, H., Blight control for 1952. Badger Common 'Tater 5. 1952, nr. 4, p. 2.

Dike, H., El control de la gota de la papa por medio de espolvoreos. Agric. trop. (Colombia) 8. 1952, nr. 9, p. 51—54.

Dürkheim, K. v., Was muß jeder Landwirt über die Krautfäule wissen? Rhein. Bauernztg. 6. 1952, 168.

Dürkheim, K. v., Wie schützt man sich am besten gegen den Schaden der Krautfäule (Phytophthora)? Rhein. Bauernztg. 6. 1952, 244.

Eide, C. J., and **Krantz, F. A.,** Can resistant potatoes lick late blight? Minnesota Farm, Home Sci. 9. 1952, nr. 2, p. 9.

Evans, J. A., How »Manzate« fungicide licks both the blights. [potato and tomato blights] Badger Common 'Tater 5. 1952, nr. 4, p. 14—15.

Ext, W., Krautfäule-Bekämpfungs-Aktion 1951. Saatgut-Erzeuger-Gemeinsch., e. V., Kiel, Sdr.-H. 2. 1952, 14 S.

Fischer, 60 Jahre Kartoffel-Krautfäulebekämpfung. Bauernbl. Schlesw.-Holst. 6./102. 1952, 617.

Flik, H. M., en **Kerssen, M. C.,** Beknopt verslag van een proef ter bestrijding van de aardaappelziekte met behulp van vernevelmachine en vliegtuig. Maandbl. Landbouwvoorl.dienst, 's-Gravenhage, 9. 5. 1952, 177-183, 3 fig. (Inst. plantenziektenkdg. Onderz., Wageningen, Meded. nr. 40).

Gallegly, M. E., Potato blights. West Virginia agric. Exp. Stat. Bull. 349. 1952, nr. 2, p. 1, 8.

Gregor, J. W., and **Gallie, R. J. L.,** Research programme. Potatoes. Scot. Soc. Res. Plant Breedg. Rept. 1952, 22—27.

Große-Lümern, Ergebnisse von Krautfäulebekämpfungsversuchen. Rhein. Bauernztg. 6. 1952, 387—388.

Guntz, M., et **Ponchet, J.,** Essais de traitement du mildiou de la pomme de terre. Phytiatrie-Phytopharmacie nr. 2. 1952, 21—25.

Hansen, F., (Late blight infection of potato tubers.) Dansk Landbrug, Aarhus, 71. 1952, 415—416.

Hirt, W., Die Bekämpfung der Erdäpfelseuche. Schweizer Bauer 106. 1952, Nr. 62, S. 1—2.

Hirt, W., Vorbeugung und Hygiene bei der Bekämpfung der Kraut- und Knollenfäule. Gesunde Pflanzen 4. 1952, 193—195, 3 Abb.

Hirt, W., Zur Bekämpfung der Kraut- und Knollenfäule der Kartoffel. Schweiz. landw. Monatsh. 6. 1952, 213—219.

Howatt, J. L., and **Hodgson, W. A.,** Preliminary report on the occurrence of physiological races of Phytophthora infestans (Mont.) de By. in Eastern Canada. Proc. canad. phytopath. Soc. nr. 20. 1952, 17 (Abstr.).

Hubert, K., Die Krautfäule der Kartoffel. Pfl.schutzamt Sachsen-Anhalt Merkbl. Nr. 27. 1952, 3. Aufl., 2 S., 1 Abb.

Hyre, R. A., Meteorological data correlated with potato and tomato late blight in northeastern United States. Phytopathology 42. 1952, 481 (Abstr.).

Josifović, M., and **Sutić, D.,** (Contribution to the knowledge of the origin and initiation of primary infections of potato by Phytophthora infestans de By.) (Yearb. Fac. Agric.), Beograd, nr. 4. 1952, 3—10, 1 tab.

Kerssen, M. C., Observations on potato-late-blight control by airplane and atomiser. Inst. plantenziektenkdg. Onderzoek, Wageningen, Onderzoekversl. nr. 1. 1952, 12 p., 9 fig.

Lihnell, D., (Late blight of potato year or not?) Lantmannen 36. 1952, 555—556.

Maklakowa, G. F., (In regard to resistance of potatoes to Phytophthora.) Dokl. Vsesoiuzn. Akad. Sel'skohoz. Nauk im. V. I. Lenina (Proc. Lenin Acad. agric. Sci.) 17. 1952, nr. 9, p. 24—28.

Malmus, Ein dringendes Gebot! Bekämpfung der Kraut- und Knollenfäule oder Phytophthora der Kartoffeln. Landw. Wochenbl. München 142. 1952, 670, 675, 2 Abb.

Martini, Die Krautfäule der Kartoffeln von der Praxis her gesehen. Württ. Wochenbl. Landw. 119. 1952, 519.

Mastenbroek, C., Investigations into the differentiation of Phytophthora infestans (Mont.) and the inheritance of the immunity of Solanum demissum (Lindl.). Thesis, Wageningen 1952. 121 p.

Mastenbroek, C., Investigations into the inheritance of the immunity from Phytophthora infestans de B. of Solanum demissum Lindl. Euphytica, Wageningen, 1. 1952, 187—198.

Mills, W. R., 2XJ-1. [potato with immunity to all blights except race D and potato breeding] Pennsylv. agric. Exp. Stat. Bull. 540 (Suppl. 2). 1952, 6.

Mills, W. R., and **Peterson, L. C.,** The development of races of Phytophthora infestans (Mont.) de Bary on potato hybrids. Phytopathology 42. 1952, 26 (Abstr.).

Montaldo, A., Control de las pudriciones en los tubérculos de papas debidas al tizón. Agric. austr. (Chile) 20. 1952, 112—113.

Montaldo, A., El tizón de la papa en Chile. Tractorista 4. 1952, nr. 26, p. 4—5.

Müller, K. O., Potato blight in Chile. FAO Plant Prot. Bull. 1. 1952, 7—8.

Müller, K. O., Report to Government of Chile on potato blight in Chile. Food Agric. Org. Un. Nat. (FAO), Rom, Rept. nr. 28. 1952, 35 p., 7 fig., 2 tab. geogr.

Müller, K. O., and **Black, W.,** Potato breeding for resistance to blight and virus diseases during the last hundred years. Ztschr. Pfl.züchtg. 31. 1952, 305—318.

Münster, J., Die Frühernte in der Schweiz. Eine wirksame Methode zur Bekämpfung der Viruskrankheiten und der Phytophthora-Knollenfäule. Kartoffelbau, Hamburg, 3. 1952, 118—119, 136—137.

Muncie, J. H., Comparison of certain standard and experimental fungicides in potato late blight control. Amer. Potato J. 29. 1952, 186—191.

Ross, H., Fortschritte in der Kartoffelzüchtung in England. Schr.reihe AID, Frankfurt/Main, H. 46. 1952, 26 S.

Schnelle, F., und **Seemann, J.,** Phytophthora-Warndienst in Holland. Landw. Wochenbl., München, 142. 1952, 1481, 1484.

Schober, K., Die Bekämpfung der Krautfäule bei Kartoffeln. Landwirtschaft, Wien, 11. 1952, 182—183.

Schrader, Zur Bekämpfung der Kartoffelkrautfäule. Hannov. land-, forstw. Ztg. 105. 1952, 578.

Smith, W. P. C., Late or Irish blight of potatoes. J. Dept. Agric. West. Austr. (ser. 3) 1. 1952, 505—506.

Stevenson, F. J., Schultz, E. S., Akeley, R. V., and **Cash, L. C.,** Late blight immunity in the potato. Phytopathology 42. 1952, 277—280.

Stolze, Wann gegen Krautfäule [Phytophthora] und Kartoffelkäfer [Leptinotarsa decemlineata] spritzen? Landw.bl. Weser-Ems 99. 1952, 635.

Tempel, W., Rentiert sich die Phytophthorabekämpfung? Rhein. Bauernztg. 6. 1952, 491.

Thomas, W. D., Factors influencing the epidemiology of late blight of potatoes. Phytopathology 42. 1952, 328.

Thran, Kartoffel-Kraut- und Knollenfäule. I, II. Wetter Schleswig-Holstein 6. 1952, nr. 49, 51. — Bauernbl. Schlesw.-Holst. 6./102. 1952, 837.

Thran, P., Phytophthora-Warndienst. Kartoffelbau, Hamburg, 3. 1952, 129—130.

Vasudeva, R. S., and **Azad, R. N.,** Efficacy of certain fungicides against potato late blight and assessment of loss due to the disease. Amer. Potato J. 29. 1952, 61—71, 3 fig.

Voß, H., Keine Wasserstäuberei. Zur Frage der Krautfäulebekämpfung. Bauernbl. Schlesw.-Holst. 6./102. 1952, 515—517, 3 Abb.

Voß, H., Krautfäulebekämpfung 1951 .... und was sagt die Praxis dazu? Kartoffelbau, Hamburg, 3. 1952, 13—15, 3 Abb.

Wade, E. K., Late blight of potatoes and tomatoes. Wisconsin agric. Coll. Ext. Circ. 424. 1952, 6 p.

Wade, E. K., Prevent late blight tuber infection at harvest time. Badger Common 'Tater 5. 1952, nr. 8, p. 7—8.

Waggoner, P. E., Distribution of potato late blight around inoculum sources. Phytopathology 42. 1952, 323—328, 3 fig.

Waggoner, P. E., Influence of host temperature and pathogen variability upon spread of Phytophthora infestans. Iowa State Coll. J. Sci. 26. 1952, 312—313.

Waggoner, P. E., and **Wallin, J. R.,** Variation in pathogenicity among isolates of Phytophthora infestans on tomato and potato. Phytopathology 42. 1952, 645—648.

Wallin, J. R., Field studies on the development and survival of Phytophthora infestans sporangia on potato and tomato plants. Phytopathology 42. 1952, 482 (Abstr.).

Warmbrunn, K., Die Kraut- und Knollenfäule der Kartoffeln. Württ. Wochenbl. Landw. 119. 1952, 430.

Warmbrunn, K., Noch einmal: Kartoffelkäfer und Krautfäule. Württ. Wochenbl. Landw. 119. 1952, 551.

Wenzl, H., Bekämpft die Kraut- und Knollenfäule der Kartoffeln! Pflanzenarzt, Wien, 5. 1952, Nr. 7, S. 2—4.

Wright, D. N., Potato late blight facts told by expert. West. Grower, Shipper 23. 1952, nr. 6, p. 47, 56.

Zadina, J., (Phytophthoraresistente Sorten der Kulturkartoffeln.) Sborník čescosl. Akad. Zeměd. (Ann. Acad. tchécosl. Agric.), Praha, 25. 1952, 513—517.

Zimmermann, H., Denkt an die Bekämpfung der Krautfäule! Landw. Wochenbl. Kurh., Waldeck 167. 1952, 746—747.

Zitzewitz, [A.] v., Kupfermittel gegen Phytophthora. Bauernbl. Schles.-Holst. 6./102. 1952, 768—769.

Zitzewitz, A. v., Phytophthora. Kartoffelbau, Hamburg, 3. 1952, 84—85, 2 Abb.

Zitzewitz, A. v., Verlustminderung durch Schädlingsbekämpfung: Forschungsergebnisse über den Ablauf-Rhythmus der Phytophthora. Kartoffelbau, Hamburg, 3. 1952, 11—13, 2 Abb.

Ausbruch der Krautfäule! Bauernbl. Schlesw.-Holst. 6./102. 1952, 1024.

Kampf der Kraut- und Knollenfäule! Rhein. Bauernztg. 6. 1952, 638.

Die Kraut- und Knollenfäule. Kampf der Phytophthora! AID 1952, Nr. 47, 8 S., 16 Abb.

Verhütet die Kraut- und Knollenfäule der Kartoffeln. Bad. landw. Wochenbl. 119. 1952, 357.

Synchytrium endobioticum

Betto, E., e Lorenzini, G., Risultati di prove di lotta contro la rogna nera della patata nella Valle Spluga. (The control of potato wart in the Spluga Valley.) Not. Mal. Piante nr. 21. 1952, 16—31.

Dorožkin, N. A., und Gorlenko, S. W., (Die Bestimmung der Lebensfähigkeit der Winterzoosporangien des Erregers des Kartoffelkrebses Synchytrium endobioticum (Schilb.) Perc. Dokl. Akad. Nauk SSSR (n. ser.) 82. 1952, 489—492.

Hey, A., Der Kartoffelkrebs (Synchytrium endobioticum (Schilb.) Perc.). Biol. Zentralanst. Berlin Flugbl. Nr. 5. 1952, 7 S., 3 Abb.

Kekukh, A. M., (Vegetative and soil »mentor« in potato selection for canker resistance.) Selektsiia i Semenovodstvo (Selection and Seed Growing), Moskwa, 19. 1952, nr. 1, p. 21—27.

Lindfors, Th., Ej potatiskräfta. Växtskyddsnotiser, Stockholm, 16. 1952, 46—47, 1 fig.

Lorenzini, G., La lotta contro il Synchytrium endobioticum a mezzo di razze resistenti di patate nell' anno 1951. (The control of Synchytrium endobioticum by resistant races of potato during the year 1951.) Not. Mal. Piante nr. 20. 1952, 35—41.

Van Lookeren Campagne, H., Laboratoriumonderzoek van aardappelrassen op hun vatbaarheid voor aardappelwratziekte. (Laboratory tests of potato varieties for susceptibility to wart disease.) Pootaardappelhandel 4. 1951, 327, 330, 2 fig.

Winkelmann, A., Biotypen des Kartoffelkrebserregers in Westdeutschland. Nachr.bl. dtsch. Pfl.schutzd., Braunschweig, 4. 1952, 140.

Zakopal, J., (Results of tests on the resistance towards the wart disease.) Sborník českosl. Akad. Zeměd. (Ann. Acad. tchécosl. Agric.), Praha, 25. 1952, 181—184.

Verzeichnis der in der Deutschen Demokratischen Republik zum Anbau zugelassenen krebsfesten bzw. krebsanfälligen Kartoffelsorten. Nachr.bl. dtsch. Pfl.schutzd., Berlin, NF. 6. 1952, 134.

Unkräuter
Weeds — Mauvaises herbes

Eastwood, T., Effect of herbicides upon potatoes used for chipping. Guide Post 30. 1952, nr. 3, p. 3—4.

Smith, O., Chemical weed control in potatoes. Down to Earth, Midland (Michigan), 8. 1952, 20.

Taylor, E. M., Cultural weed control in potatoes. Proc. nat. Weed Comm., East. Sect. (Canada), 5 (1951). 1952, 108—109.

Van Hiele, F. J. H., (Weed damage in potatoes in relation with the stage of growth.) Maandbl. Landbouwvoorl.dienst, 's-Gravenhage, 9. 1952, 20—28.

Tierische Feinde
Animal parasites — Parasites animaux

Boock, O. J., and Lordello, L. G. E., (»Lava-pe« ants [Solenopsis saevissima], pests of potatoes.) Rev. Agric., Piracicaba, 27. 1952, 377—379.

Bradley, R. H. E., Ganong, R. Y., and Rideout, D. W., Aphid (Homoptera: Aphididae) infestations on Chippewa, Katahdin, and the newly released blight-resistant varieties Canso and Keswick. Amer. Potato J. 29. 1952, 221—224, 1 fig.

Chapman, R. K., Some important insects on potatoes in Wisconsin. Badger Common 'Tater 5. 1952, nr. 4, p. 10—11.

Chapman, R. K., Some more potato insects. Badger Common 'Tater 5. 1952, nr. 5, p. 12—13.

DeLong, D. M., Plant feeding potato insect pests and measures for their control. Amer. Potato J. 29. 1952, 151—156.

Detroux, L., La désinsectisation du sol et la transmission d'une saveur désagréable aux cultures de pommes de terre. Parasitica, Gembloux, 8. 1952, 40—43.

Dudley jr., J. E., Landis, B. J., and Shands, W. A., Control of potato insects. US Dept. Agric. Farmers' Bull. 2040. 1952, 52 p.

Große-Lümern, Bodenuntersuchung und Wildschaden. Mitt. dtsch. Landw.-Ges., Frankfurt/M., 67. 1952, 653.

Kabiersch, W., Fraßschäden bei Kartoffeln durch Drahtwürmer und Engerlinge. Probleme der Bekämpfung in der Praxis. Kartoffelbau, Hamburg, 3. 1952, 17—18.

Kirk, V. M., A study of the disposition of DDT when used as an insecticide for potatoes. Cornell Univ. agric. Exp. Stat., Ithaca (New York), Mem. 312. 1952, 48 p., 12 fig.

Mallo, R. G., »Bichos moros« de la papa. [Epicauta spp.] Agron. y Vet. (Argentina) 2. 1952, nr. 12, p. 15—16.

Manson, G. F., and **Begg, J. A.,** Wireworms and potatoes. Ontario Crop Improvem. Assoc. (Potato Sect.) Addr., Proc. 15. 1952, 148—153.

Menusan jr., H., Flea beetle (Epitrix cucumeris) control on potatoes. Guide Post 30. 1952, nr. 6, p. 12.

Menusan jr., H., Potato aphid control in Pennsylvania. Guide Post 30. 1952, nr. 8, p. 20—22.

Menusan jr., H., The potato leafhopper [Empoasca fabae] and its control. Guide Post 30. 1952, nr. 7, p. 16, 18.

Merrill jr., L. G., Reduction of wireworm damage to potatoes. J. econ. Ent. 45. 1952, 548—549.

Post, R. L., Rostberg, M. G., and **Aanestad, R. D.,** Research on insects affecting potato production, 1951. Bi-mon. Bull. North Dakota agric. Exp. Stat. 14. 1952, 182—186.

Price Gaviria, C., Insectos de la papa y recomendaciones para su control resultado de los ensayos comparativos de insecticidas. Cañete (Perú) Estac. Exp., Dept. Ent., Circ. DEF nr. 9. 1952, 9 p.

Sanford, G. B., Phloem necrosis of potato tubers associated with infestation of vines by Paratrioza cockerelli Sulc. Sci. Agric., Ottawa, 32. 1952, 433—439, 2 tab.

Schmidt, Neue Erfahrungen in der Blattlausbekämpfung. Kartoffelbau, Hamburg, 3. 1952, 108—109.

Shands, W. A., and **Landis, B. J.,** Potato aphids. US Dept. Agric. Yearb. Agric. 1952, 519—527.

Smith, W. A., Potato tuber moth [Gnorimoschema operculella] control in North Queensland. Queensland agric. J. 74. 1952, 22—24.

Tominić, A., Potato tuber worm on Adriatic coast and Islands. Saschtita Bilja (Plant Prot.), Beograd, nr. 11. 1952, 43—56.

Wallis, R. L., Cull-potato piles as breeding places for the potato psyllid [Paratrioza cockerelli] and tuber flea beetle [Epitrix tuberis]. Amer. Potato J. 29. 1952, 17—22.

Wallis, R. L., The potato psyllid. [Paratrioza cockerelli] US Dept. Agric. Yearb. Agric. 1952, 515—519, 3 fig.

Wolfenbarger, D. O., Insect control on potatoes — 1951—52. Agric. Bull. (Shell) 1952, 3 p.

Aldrin for the control of wireworms (Agriotes spp.) attacking potatoes. Agric. Bull. (Shell) ADB. 344/Fm 12. 1952, 2 p.

Kartofenijat molez (Gnorimoschema operculella Zell.) i borbata s nego. (Kartoffelmotte und ihre Bekämpfung.) (Landwirtsch.-Minist., Staatverlag »Semisdat«, ... Sofia. 1952, 15 fig., 1 tab. col.

Nematodes

Bazán de Segura, C., The golden nematode in Perú. Plant. Dis. Reptr. 36. 1952, 253.

Böhm, O., Beitrag zur Kenntnis der Verbreitung des Kartoffelnematoden (Heterodera rostochiensis Wr.) in Österreich. Pflanzenschutzberichte, Wien, 9. 1952, 151—152.

Ellenby, C., Resistance to the potato root eelworm, Heterodera rostochiensis Wollenweber. Nature, London, 170. 1952, 1016.

Fassuliotis, G., and **Feldmesser, J.,** An attempt to concentrate golden nematode-stimulatory elements from potato-root leachings. Phytopathology 42. 1952, 466.

Feldmesser, J., and **Fassuliotis, G.,** Reaction of Nicotiana spp. to the Long Island, New York golden nematode of potatoes. Heterodera rostochiensis. Plant Dis. Reptr. 36. 1952, 483—484.

Fenwick, D. W., The bio-assay of potato-root diffusate. Ann. appl. Biol. 39. 1952, 457—467, 5 fig.

Goffart, H., Die Heimat des Kartoffelälchens. Kartoffelbau, Hamburg, 3. 1952, 86.

Goffart, H., Vierzig Jahre Kartoffelnematodenbekämpfung in Deutschland. Gesunde Pflanzen 4. 1952, 261—264, 1 Abb.

Goffart, H., und **Heiling, A.,** Vergilbekrankheit der Rüben und Kartoffelnematoden. Landw. Wochenbl. Westf., Lippe 109 A. 1952, 436.

Grainger, J., The menace of potato-root eelworm. Brit. agric. Bull. 5. 1952, nr. 21, p. 131—137, 12 fig.

Grainger, J., Recent work in Ayrshire on the control of potato-root eelworm. [Heterodera rostochiensis] Ann. appl. Biol. 39. 1952, 277—279.

Hastings, R. J., Bosher, J. E., and **Newton, W.,** Experimental transfers of the bulb nematode of iris, of narcissus, and of hyacinth to potato. Sci. Agric., Ottawa, 32. 1952, 304—310.

Hey, A., Der Kartoffelnematode (Heterodera rostochiensis Wr.). Biol. Zentralanst. Berlin Flugbl. Nr. 6. 1952, 7 S., 4 Abb.

Hey, A., Organisatorische Probleme der Kartoffelnematodenabwehr. Mitt. Biol. Zentralanst. H. 74. 1952, 43—45.

Jeurink, J., Kartoffelälchen und ihre Bekämpfung in den Niederlanden. Gesunde Pflanzen 4. 1952, 14—15.

Johnson, A. W., The eelworm problem: biological aspects. The potato eelworm hatching factor. Chem. and Ind. (Rev.), London, 41. 1952, 994—999.

Lear, B., Prevent the spread of golden nematode of potatoes. Disinfest burlap bags and machinery with methyl bromide. [Heterodera rostochiensis] Cornell Univ. agric. Exp. Stat. Ext. Bull. 866. 1952, 4 p., 3 fig.

Lear, B., and **Mai, W. F.,** Methyl bromide for disinfesting burlap bags and machinery to help prevent spread of golden nematode of potatoes. Phytopathology 42. 1952, 489—492, 2 fig.

Lear, B., Mai, W. F., Feldmesser, J., and **Spruyt, F. J.,** Soil fumigation experiments on Long Island, New York, to control golden nematode of potatoes. [Heterodera rostochiensis] Phytopathology 42. 1952, 193—196, 4 fig.

Mai, W. F., Temperature in relation to retention of viability of encysted larvae of the golden nematode of potato, Heterodera rostochiensis Wollenweber. Phytopathology 42. 1952, 113 (Abstr.).

Mai, W. F., and **Lear, B.,** The golden nematode (Heterodera rostochiensis). [a new threat to the American potato industry] New York State agric. Exp. Stat. Bull. 870. 1952, 32 p.

Mai, W. F., and **Lear, B.,** Yearly DD treatments and continuous potato production in relation to the golden nematode population of the soil. Phytopathology 42. 1952, 481 (Abstr.).

Mai, W. F., and **Peterson, L. C.,** Resistance of Solanum Ballsii and Solanum sucrense of the golden nematode, Heterodera rostochiensis, Wollenweber. Science, Lancaster, 116. 1952, 224—225.

Peters, B. G., Pot tests of nematicides against potato-root eelworm. I. Pilot test and methods. Ann. appl. Biol. 39. 1952, 447—456.

Reisinger, E., Die Älchenkrankheit (Kartoffelmüdigkeit) bedroht unseren Kartoffelanbau. [Heterodera rostochiensis] Kärntner Bauer 102. 1952, 142—144.

Savary, A., Le nématode doré de la pomme de terre, Heterodera rostochiensis Wollenweber. Rev. rom. Agric., Vitic., Arboric. 8. 1952, 44—46, 5 fig.

Sprau, F., Der Kartoffelnematode (Heterodera rostochiensis Wollenw.) und seine Gefahren für den Kartoffelbau. Pflanzenschutz, München, 4. 1952, 41—46, 8 Abb.

Toxopeus, H. J., and **Huijsman, C. A.,** Genotypical background of resistance to Heterodera rostochiensis in Solanum tuberosum var. andigenum. Nature, London, 170. 1952, 1016.

Van den Brande, J., Kips, R. H., D'Herde, J., en **Van Mol, L.,** Onderzoek van aardappelvarieteiten en van amerikaanse Solanum-soorten in verband met het aardappelcystenaaltje Heterodera rostochiensis Woll. I. Meded. Landbouwhoogesch., Opzoek.-stat. Gent 17. 1952, 51—60.

Wille, J. E., y **Bazán de Segura, C.,** La anguilula dorada, Heterodera rostochiensis, una plaga del cultivo de las papas, recién descubierta en el Perú 1951. Minist. Agric., Centro nac. Invest. Exp. agríc. »La Molina«, Lima (Perú), Bol. nr. 48. 1952, 17 p., 5 fig.

Leptinotarsa decemlineata

Arenz, B., und **Schröppel, H.,** Über die Auswirkung einer Cyanamidernährung von Kartoffelpflanzen auf den Besatz mit Kartoffelkäferlarven. Ztschr. Pfl.-krankh. 59. 1952, 334—339, 4 Abb.

Atanacković, St., (Le doryphore en Yougoslavie en 1951.) Saschtita Bilja (Plant Prot.), Beograd, nr. 9. 1952, 83—89.

Auersch, O., Beobachtungen über Kartoffelkäferauftreten im Zusammenhang mit Kartoffelanbau. Dtsch. Landw. 3. 1952, 139—142, 3 Abb.

Baas, J., Was hat die Kartoffelkäferbekämpfung bisher erreicht? Mitt. dtsch. Landw.-Ges., Frankfurt/M., 67. 1952, 483—485, 4 Abb.

Baumgarten, A., Vorläufiger Kartoffelkäferschlußbericht für 1952. Gesunde Pflanzen 4. 1952, 294.

Beran, F., Auftreten und Bekämpfung des Kartoffelkäfers in Österreich im Jahre 1951. Pflanzenschutzberichte, Wien, 8. 1952, 50—58, 1 Landkarte.

Beran, F., Das Auftreten und die Bekämpfung des Kartoffelkäfers im Jahre 1951. Pflanzenarzt, Wien, 5. 1952, Nr. 4, S. 1.

Boczkowska, M., Observations sur une seconde génération de Leptinotarsa decemlineata Say obtenue sur Solanum demissum. Trans. IXth int. Congr. Ent., Amsterdam, 1 (1951). 1952, 660.

Chauvin, R., Nouvelles recherches sur les substances qui attirent le doryphore (Leptinotarsa decemlineata Say) vers la pomme de terre. Ann. Épiphyties, Paris, 3. 1952, 303—308.

Diehl, Pflichtspritzen gegen Kartoffelkäfer. Bauernbl. Schlesw.-Holst. 6./102. 1952, 804—805.

Dreiseitl, Sachgemäße Kartoffelkäfer-Bekämpfung. Salzburger Bauer 7. 1952, Nr. 20, S. 2.

Eike, H., Zu: Kartoffelkäfer contra Hühner. Dtsch. Jäger-Ztg. 1951/52, 408.

Ender, 75 Jahre Kampf gegen den Kartoffelkäfer (Leptinotarsa decemlineata) in Oldenburg. Landw.bl. Weser-Ems 99. 1952, 659—660.

Franz, J., Exposé du groupe de travail sur la lutte biologique contre le doryphore. Commiss. int. Lutte biol. Ennemis Cult., Paris, nr. 9. 1958, 2 p.

Fricker, A., Kartoffelkäferbekämpfung 1952. Württ. Wochenbl. Landw. 119. 1952, 473.

Geitmann, Ch., Was hat die Kartoffelkäferbekämpfung bisher erreicht? Mitt. dtsch. Landw.-Ges., Frankfurt/M., 67. 1952, 694.

Grison, P. A., Relations entre l'état physiologique de la plante-hôte, Solanum tuberosum et la fécondité du doryphore, Leptinotarsa decemlineata Say. Trans. IXth int. Congr. Ent., Amsterdam, 1 (1951). 1952, 331—337, 2 fig.

Grison [P. A.], et Le Berre, Études écologiques poursuivies en 1951 sur le doryphore (Leptinotarsa decemlineata). Pomme Terre franç. 15. 1952, nr. 154, p. 3—6.

Hopf, M., Schwarzfleckenkrankheit des Kartoffelkäfers durch Beauveria-Befall. Nachr.bl. dtsch. Pfl.schutzd., Berlin, NF. 6. 1952, 96—97.

Hosch, Der Kartoffelkäfer. Hannov. land-, forstw. Ztg. 105. 1952, 575.

Hrdý, I., a Jeber, J., Žír larvy mandelinky bramborové (Leptinotarsa decemlineata Say) a jeho průběh. (Blattfraß der Larve des Kartoffelkäfers (Leptinotarsa decemlineata Say) und sein Verlauf.) Zool., ent. Listy (Folia zool., ent.), Brno (CSR), 1. 1952, 10—15, 3 fig.

Janežić, F., (Biological observations on Colorado beetle in slovensko Primorje in 1951 and experiments for controlling it with insecticides.) Saschtita Bilja (Plant Prot.), Beograd, nr. 9. 1952, 3—12.

Keilbach, R., Chrysopidenlarven — als gelegentliche Vertilger von Kartoffelkäfereiern. Nachr.bl. dtsch. Pfl.schutzd., Berlin, NF. 6. 1952, 14, 1 Abb.

Kirchner, Auswertung der Kartoffelkäfersammelaktion 1952 in einem Kreise des Landes Mecklenburg. Nachr.bl. dtsch. Pfl.schutzd., Berlin, NF. 6. 1952, 229—233, 3 Landkarten.

Küthe, K., Kann die Kartoffelkäferbekämpfung weiter verbilligt werden? Nachr.bl. dtsch. Pfl.schutzd., Braunschweig, 4. 1952, 161—166, 1 Abb.

Langenbuch, R., Ist das Fehlen eines »Fraßstoffes« oder das Vorhandensein eines »Vergällungsstoffes« die Ursache für die Resistenz der Wildkartoffel Solanum chacoense Bitt. gegenüber dem Kartoffelkäfer? Zugleich ein Beitrag zur Frage der Monophagie des Kartoffelkäfers. Ztschr. Pfl.krankh. 59. 1952, 179—189, 8 Abb.

Large, E. C., Thanks to the Colorado beetle... Agriculture, J. Minist. Agric., London, 59. 1952, 463—468.

Le Berre, J. R., Contribution à l'étude du déterminisme de l'envol du doryphore, Leptinotarsa decemlineata Say. Compt. rend. Acad. Sci. 234. 1952, 1092—1094.

Legde, G., und Wasserburger, H.-J., Versuche zur Bekämpfung des Kartoffelkäfers mit Kalkstickstoff. Dtsch. Landw. 3. 1952, 640—642, 1 Abb.

Lehmann, E., Hundert Jahre Kartoffelkäfer. Orion, München, 7. 1952, 337—339, 5 Abb.

Letz, Kartoffelkäferbekämpfung in West-Berlin 1951. Mitt.bl. Landesverb. Gartenbau, Landw. Berlin 2. 1952, 68, 1 Abb.

Manunta, C., e Solinas, M. I., Sul metabolismo dei pigmenti carotenoidi nella dorifora delle patate (»Leptinotarsa decemlineata« Say). (Über den Stoffwechsel der Carotinoide beim Kartoffelkäfer (Leptinotarsa decemlineata Say).) Atti Accad. naz. Lincei, Roma, 12. 1952, 759—767.

Martini, E., Conjunctivalreizung durch Kartoffelkäferlarven. Med. Klinik, Wien, 47. 1952, 1740—1741.

Marzusch, K., Untersuchungen über die Temperaturabhängigkeit von Lebensprozessen bei Insekten unter besonderer Berücksichtigung winterschlafender Kartoffelkäfer. Ztschr. vergl. Physiol. 34. 1952, 75—92, 4 Abb.

Mayer, H. R., Die Kartoffelkäferbekämpfung 1951. Landw. Wochenbl., München, 142. 1952, 616.

Mayer, H. R., Neuregelung der Kartoffelkäferbekämpfung in Bayern. Geschlossene Bekämpfungsmaßnahmen in den Gemeinden — Verbilligungsbeihilfen des Staates. Landw. Wochenbl., München, 142. 1952, 667.

Mayer, H. R., Stand der Kartoffelkäferbekämpfung in Bayern. Pflanzenschutz, München, 4. 1952, 75—76, 1 Abb.

Przygodda, W., Kartoffelkäfer-Bekämpfung durch Vögel? Landw. Ztschr. Nord-Rheinprov. 119. 1952, 402—403.

Reisinger, E., Kartoffelkäfer [Leptinotarsa decemlineata] — Rück- und Ausblick. Kärntner Bauer 102. 1952, 531—532.

Rui, D., (Doryphore of potato (Leptinotarsa decemlineata).) [biology and control] Agric. vicent. (Italia) 83. 1952, nr. 9, p. 3.

Rui, D., and Bellavite, F., (Experimental control of doryphore carried out in 1951.) Inform. agric., Vicenza, 8. 1952, 5—6.

Rui, D., and Bellavite, F., (Biological and therapeutical observations on the potato doryphore.) [Leptinotarsa decemlineata] Inform. agric., Vicenza, 8. 1952, 249.

Scheibe, K., Bekämpfung des Kartoffelkäfers. Kartoffelbau, Hamburg, 3. 1952, 85—86.

Schneider, R., Kartoffelkäferbekämpfung? Ja, aber keine Bekämpfung der Honigbiene. Hess. Biene 88. 1952, 176—177.

Sellke, K., und Thiem, E., Der Kartoffelkäfer. Biol. Zentralanst. Berlin Flugbl. Nr. 4. 1952, 10 S.

Stephan, F., Kartoffelkäferbekämpfung. Bauer 5. 1952, Nr. 22, S. 13—14.

Sterten, A. K., (Control of the Colorado potato beetle on an agricultural meteorological basis.) Norsk Landbruk, Oslo, 18. 1952, 209—210.

Stobwasser, H., und Welte, E., Erfahrungen bei der Kartoffelkäferbekämpfung mit Heißgasnebelgeräten. Gesunde Pflanzen 4. 1952, 84—86, 2 Abb.

Stolze, Wann gegen Krautfäule (Phytophthora) und Kartoffelkäfer (Leptinotarsa decemlineata) spritzen? Landw.bl. Weser-Ems 99. 1952, 635.

Thiem, E., Die Wirkung von Hexamitteln auf Kartoffelkäfer in Abhängigkeit von ihrem Gehalt an Gammexan. »Pflanzenschutztagung«, [Berlin 1952]. 16 S.

Thomas, I., Colorado beetle in England in relation to its spread on the continent. Plant Path., London, 1. 1952, 103—108, 3 fig.

Thomas, I., and **Aitkenhead, P.,** Colorado beetle in England, 1951. Agriculture, J. Minist. Agric., London, 59. 1952, 129—133, 1 tab. geogr.

Venturi, F., La dorifora della patata. Inform Fitopat., Bologna, 2. 1952, Suppl. nr. 7, 4 p., 1 fig.

Völker, Ein Kartoffelkäferweibchen: 800 Junge. Landw. Wochenbl. Kurhessen, Waldeck 167. 1952, 522.

Völker, H., Zur Kartoffelkäferbekämpfung. Rhein. Bauernztg. 6. 1952, 348. — Landw. Wochenbl., München, 142. 1952, 502.

Warmbrunn, K., Noch einmal: Kartoffelkäfer und Krautfäule. Württ. Wochenbl. Landw. 119. 1952, 661.

Wundrig, G., Die Schwarzfleckenkrankheit der Kartoffelkäferlarven. Nachr.bl. dtsch. Pfl.schutzd., Braunschweig, 4. 1952, 15.

Zimmermann, Keiner darf fehlen bei der Kartoffelkäferbekämpfung. Landw. Wochenbl. Kurh., Waldeck 167. 1952, 624—625.

The Colorado beetle. Dept. Agric., Dublin, Leafl. nr. 106. 1952, 3 p., 2 tab. col.

Dieldrin for the control of the Colorado beetle (Leptinotarsa decemlineata). Agric. Bull. (Shell) ADB. 342/Fm 26. 1952, 2 p.

(Ein **Kartoffelkäfer** alarmiert Dänemark.) (Übersetzt von **E. Drees.**) Gesunde Pflanzen 4. 1952, 234—235. — Jydske Tidende, Kopenhagen, v. 4. 7. 1952.

Kartoffelkäfer kamen gut durch den Winter. In diesem Jahr ist mit einem starken Befall zu rechnen. Landw. Wochenbl. Kurh., Waldeck 167. 1952, 433—434.

Virus

Archimowitsch, A. v., Insekten als mögliche Überträger der Virus-Krankheiten der Kartoffel in Spanien. Anz. Schädl.kunde 25. 1952, 118—119.

Bagnall, R. H., Potato seedlings hypersensitive toards Solanum virus I, Smith (potato virus X), and a rapid means of detecting the reaction. Proc. canad. phytopath. Soc. nr. 20. 1952, 14 (Abstr.).

Barnes, G. L., Chemical roguing of diseased potato vines. Proc. Oregon Seed Growers League 11. 1952, 105, 107.

Barnes, C. L., Preliminary trials on chemical roguing of virus-diseased potato plants. Phytopathology 42. 1952, 511—512 (Abstr.).

Bercks, R., Fortgeführte Freilanduntersuchungen über die Altersresistenz von zwei Kartoffelsorten gegen das X-Virus. Züchter 22. 1952, 85—91.

Bradley, R. H. E., A rapid method of testing plants in the field for potato virus X. Amer. Patato J. 29. 1952, 289—291, 1 fig.

Bradley, R. H. E., and **Ganong, R. Y.,** Aphid infestations on Katahdin and on a seedling resistant to Myzus persicae (Sulz.), with two dates of planting. Canad. J. Res. (Zool.) 29. 1952, 329—338, 5 fig.

Broadbent, L., The control of potato virus diseases by roguing and early harvesting. Proc. Conf. Potato Virus Dis., Wageningen-Lisse, 13.—17. 8. 1951. 1952, 34—36. (Lab. Bloembollenonderz. Lisse Publ. nr. 94.)

Broadbent, L., The control of potato virus diseases by the application of insecticides. Proc. Conf. Potato Virus Dis., Wageningen-Lisse, 13.—17. 8. 1951. 1952, 23—26. (Lab. Bloembollenonderz. Lisse Publ. nr. 94.)

Broadbent, L., Transmission of potato viruses by aphids and spread in the field. Proc. Conf. Potato Virus Dis., Wageningen-Lisse, 13.—17. 8. 1951. 1952, 9—13. (Lab. Bloembollenonderz. Lisse Publ. nr. 94.)

Broadbent, L., Gregory, P. H., and **Tinsley, T. W.,** The influence of planting date and manuring on the incidence of virus diseases in potato crops. Ann. appl. Biol. 39. 1952, 509—524, 1 fig.

Cockerham, G., Breeding for resistance to potato viruses. Proc. Conf. Potato Virus Dis., Wageningen-Lisse, 13.—17. 8. 1951. 1952, 37—39. (Lab. Bloembollenonderz. Lisse Publ. nr. 94.)

Conroy, R. J., Purple top wilt of potatoes. Austr. Plant Dis. Recorder 4. 1952, 6.

Cremer, M. C., The preparation of antiserum against potato virus Y. Proc. Conf. Potato Virus Dis., Wageningen-Lisse, 13.—17. 8. 1951. 1952, 85—87, 2 fig. (Lab. Bloembollenonderz. Lisse Publ. nr. 94.)

Cunningham, C. E., Eastman, P. J., and **Goven, M.,** Potato vine killing methods as related to rate of kill, vascular discoloration, and virus disease spread. Amer. Potato J. 29. 1952, 8—16, 1 fig.

De Bruyn Ouboter, M. P., A new potato virus. Proc. Conf. Potato Virus Dis., Wageningen-Lisse, 13.—17. 8. 1951. 1952, 83—84, 1 fig. (Lab. Bloembollenonderz. Lisse Publ. nr. 94.)

Drake, D. C., The six-spotted leafhopper (Macrosteles divisus) in relation to purple-top wilt of potato. Proc. amer. Assoc. econ. Entomologists, North Centr. States Br., 7. 1952, 63—64.

Emilsson, B., (Test seed — the seed potato of the future.) [control of virus X] Svensk Jordbr.forskn., Stockholm, 1952, 78—86.

Emilsson, B., and **Castberg, C.,** Control of potato aphids by spraying with parathion and the effect on spread of virus Y. Acta agric. Scand., Stockholm, 2. 1952, 247—257, 1 fig.

Feistritzer, W., Das Krautziehen, eine Methode zur Erzeugung gesunder Pflanzkartoffeln. [Myzodes persicae als Virusüberträger] Praxis und Forsch. 4. 1952, 34—36.

Fernandez Valiela, M. V., Necrosis de los brotes de la papa; una enfermedad causada por virus con un bajo grado de transmisibilidad por tubércolo. IDIA (Inform. Invest. agríc., Buenos Aires, 5. 1952, nr. 55, p. 6—7.

Folsom, D., Practical control measures for leafroll. Amer. Potato J. 29. 1952, 229—233.

Forti, G., Colture all'aperto con il metodo del »tassello« per il saggio delle malattie da virus nelle patate. (Cultivation in the open in conjunction with the »plug« method of testing for virus diseases of potatoes.) Not. Mal. Piante nr. 21. 1952, 14—16.

Frey, A., Erfolgreicher Saatkartoffelbau durch die Frühernte. [verschiedene Blattläuse übertragen Kartoffelviren] Übersicht 3. 1952, Nr. 2, S. 54—56.

García Orad, A., Estación de mejora de la patata. Sección de virosis. ASPAS (España) 4. 1952, 6—8.

Gregor, J. W., and **Gallie, R. J. L.,** Research programme. Potatoes. Scot. Soc. Res. Plant Breedg. Rept. 1952, 22—27.

Hansen, F., og **Hansen, S. E.,** Undersøgelser over kartoffel virus X. I. Tidsskr. Planteavl, København, 55. 1952, 136—143.

Hansen, S. E., Investigations on potato virus X. Proc. Conf. Potato Virus Dis., Wageningen-Lisse, 13.—17. 8. 1951. 1952, 28—30. (Lab. Bloembollenonderz. Lisse Publ. nr. 94.)

Haus, K., (Quality and culture from seed of potatoes; a survey of the growing of seed potatoes free from virus.) Samvirke, Oslo, 47. 1952, 120—124.

Henner, J., und **Schreier, O.,** Untersuchungen über das Auftreten von Blattläusen an Kartoffeln in Österreich in den Jahren 1950—1951 im Zusammenhang mit virösem Kartoffelabbau. Pflanzenschutzberichte, Wien, 8. 1952, 150—159, 4 Abb.

Hey, A., Verbreitung und Bekämpfung virusübertragender Blattläuse in Beziehung zum Auftreten von Kartoffelvirosen im Nachbau. Nachr.bl. dtsch. Pfl.-schutzd., Berlin, NF. 6. 1952, 181—187.

Hofferbert, W., und **Orth, H.,** Weitere Versuche zur inneren Therapie der Kartoffelpflanze gegen die Pfirsichblattlaus. Höfchen-Briefe 5. 1952, 10—15.

Hoyman, W. G., Seed potatoes free of virus X and other viruses. Bi-mon. Bull. North Dakota agric. Exp. Stat. 14. 1952, 123—125.

Hutton, E. M., Some aspects of virus Y resistance in the potato (Solanum tuberosum). Austral. J. agric. Res. 3. 1952, 362—371.

Hutton, E. M., and **Peak, A. R.,** The selection of spotted-wilt-resistant pheotypes in the potato (Solanum tuberosum). Austr. J. agric. Res. 3. 1952, 137—147, 2 tab.

Kanngießer, W., Polarographische und papierelektrophoretische Charakterisierung von Kartoffelproteinen in ihrer Beziehung zu Kartoffelvirosen. Phytopath. Ztschr. 18. 1952, 447—452, 9 Abb.

Kassanis, B., Some factors affecting the transmission of leafroll virus by aphids. Ann. appl. Biol. 39. 1952, 157-167, 1 tab.

Keleny, G. P., The detection of necrosis in leaf roll infected potato stems by means of fluorescence microscopy. J. austr. Inst. agric. Sci. 17. 1952, 203—206.

Kendrick, J. B., Internal browning of Netted Gem potatoes in California. Phytopathology 42. 1952, 25 (Abstr.).

Kilpatrick, D. T., Better care of potato seed is needed. [effect of leaf roll on yield and aphid control] J. Dept. Agric. South Austr. 56. 1952, 19—22.

Klauß, D., Erläuterungen über die Kartoffelabbaukrankheiten. Saarländ. Bauernbl. 6. 1952, 140, 2 Abb.

Koch, E. G., Untersuchungen über den Einfluß von Standort und Sorte beim Auftreten der Pfirsichblattlaus Myzodes persicae Sulz. an Kartoffeln in Hessen. Ber. oberhess. Ges. Natur-, Heilkunde Gießen, naturwiss. Abt., NF. 25. 1952, 99—107.

Köhler, E., Beiträge zur Kenntnis des A-Virus der Kartoffel. Phytopath. Ztschr. 19. 1952, 295—306, 2 Abb.

Köhler, E., Die Bukettkrankheit der Kartoffel. Hannov. land-, forstw. Ztg. 105. 1952, 181, 5 Abb.

Köhler, E., Die Bukettkrankheit, eine Viruskrankheit der Kartoffel. [Solanum-virus deformans] Phytopath. Ztschr. 19. 1952, 284—294, 16 Abb.

Köhler, E., Diagnostik der Kartoffelviren mit Testpflanzen. Proc. Conf. Potato Virus Dis., Wageningen-Lisse, 13.—17. 8. 1951. 1952, 27. (Lab. Bloembollenonderz. Lisse Publ. nr. 94.)

Köhler, E., Die Nomenklatur der Kartoffelviren. Proc. Conf. Potato Virus Dis., Wageningen-Lisse, 13.—17. 8. 1951. 1952, 51. (Lab. Bloembollenonderz. Lisse Publ. nr. 94.)

Köhler, E., Die wichtigeren Viruserkrankungen der Kartoffel. Kartoffelbau, Hamburg, 3. 1952, 106—107, 3 Abb.

Kristensen, H. R., (Potato virus X.) Dansk Landbrug, Aarhus, 71. 1952, 352—353.

Lauffer, M. A., and **Cartwright, T. E.,** Ultracentrifugation studies on potato latent mosaic virus. Arch. Biochem., Biophys., New York, 38. 1952, 371—375.

Limasset, P., Le controle sérologique en 1951. Pomme Terre franç. 15. 1952, nr. 153, p. 3—5.

Locke, S. B., Ascorbic acíd content as an indication of virus infection of potato tubers. Phytopathology 42. 1952, 516 (Abstr.).

M'Intosh, T. P., The choice of seed potatoes. [virus diseases and other factors influencing productivity] Scot. Agric., Edinburgh, 32. 1952, 59—65.

MacLeod, D. J., Bagnall, R. H., and **Rankin, D. F.,** Testing of potatoes for resistance to virus diseases. Proc. canad. phytopath. Soc. nr. 19. 1952, 17—18 (Abstr.).

Marcus, Wir brauchen gesunde Kartoffeln. Die Kartoffelherkunftsprüfung 1951/1952 und ihre Ergebnisse. Landw. Wochenbl. Kurh., Waldeck 167. 1952, 1044—1045, 1 Abb.

Marini, E., Ancora sulla frequenza del virus X nelle patate d'importazione e in alcune razze italiane. (A further note on the frequency of virus X in imported potatoes and in some Italian lines.) Not. Mal. Piante nr. 21. 1952, 56—61.

Martin, C., Contribution à l'étude des propriétés sérologiques des virus de la pomme de terre. Ann. Épiphyties, Paris, 3. 1952, 393—394.

Menzies, J. D., and **Giddings, N. J.,** Curly top virus induces potato green dwarf. Phytopathology 42. 1952, 516 (Abstr.).

Milbrath, J. A., Variations in potato calico caused by strains of alfalfa mosaic. Phytopathology 42. 1952, 516—517 (Abstr.).

Müller, K. O., and **Black, W.,** Potato breeding for resistance to blight and virus diseases during the last hundred years. Ztschr. Pfl.züchtg. 31. 1952, 305—318.

Münster, J., L'évolution des pucerons, vecteurs des maladies à virus de la pomme de terre, en 1951. [Macrosiphum solanifolii, Myzodes persicae] Stat. féd. Essais, Contr. Sem., Lausanne, 27. 2. 1952, 4 p., 3 fig.

Münster, J., Die Frühernte in der Schweiz. Eine wirksame Methode zur Bekämpfung der Viruskrankheiten und der Phytophthora-Knollenfäule. Kartoffelbau, Hamburg, 3. 1952, 118—119, 136—137.

Münster, J., et Murbach, R., L'application d'insecticides contre les pucerons vecteurs des viroses de la pomme de terre peut-elle garantir la production de plants de qualité? Rev. rom. Agric., Vitic., Arboric. 8. 1952, 41—43, 2 fig.

Natti, J. J., Evaluation of the phloroglucinol test for the diagnosis of potato leafroll. Phytopathology 42. 1952, 481 (Abstr.).

Procter, C. H., Virus infection in certified seed potatoes. New Zealand J. Sci., Technol. (A) 34. 1952, 192—194.

Rich, A. E., Some suggestions for indexing potato tubers. Amer. Potato J. 26. 1952, 170—172.

Roberts, D. A., Blodgett, F. M., and **Wilkinson, R. E.,** Potato virus X: inoculation of potato varieties tolerant to virus Y. Amer. Potato J. 29. 1952, 212—220.

Rönnebeck, W., Versuche zur Minderung der Virusverseuchung von Kartoffelpflanzgut. (Vorläufige Mitteilung.) Nachr.bl. dtsch. Pfl.schutzd., Braunschweig, 4. 1952, 189—190.

Rönnebeck, W., Weitere Beiträge zur Bekämpfung von Myzodes persicae Sulzer als Virusüberträger im Kartoffelfeld. Ztschr. Pfl.krankh. 59. 1952, 13—26, 2 Abb.

Roland, G., Étude virologique sur la pomme de terre. Recherches symptomatologiques et histopathologiques. Compt. rend. Rech. Inst. Encour. Rech. sci. Ind., Agric. (I. R. S. I. A.), Bruxelles, nr. 7. 1952, 6—117, 56 fig.

Roland, G., Identification des virus de la pomme de terre. Proc. Conf. Potato Virus Dis., Wageningen-Lisse, 13.—17. 8. 1951. 1952, 31—33. (Lab. Bloembollenonderz. Lisse Publ. nr. 94.)

Roland, G., La nomenclature des virus de la pomme de terre. Proc. Conf. Potato Virus Dis., Wageningen-Lisse, 13.—17. 8. 1951. 1952, 52—58. (Lab. Bloembollenonderz. Lisse Publ. nr. 94.)

Roland, G., Quelques recherches sur l'enroulement de la pomme de terre (Solanum virus 14, Appel et Quanjer). [Rhopalosiphoninus latysiphon] Parasitica, Gembloux, 8. 1952, 150—158, 1 tab.

Ross, H., Fortschritte in der Kartoffelzüchtung in England. Schr.reihe AID, Frankfurt/Main, H. 46. 1952, 26 S.

Ross, H., Studies on mosaic resistance in the potato. Proc. Conf. Potato Virus Dis., Wageningen-Lisse, 13.—17. 8. 1951. 1952, 40—47. (Lab. Bloembollenonderz. Lisse Publ. nr. 94.)

Rozendaal, A., Demonstration of experiments with potato viruses. Proc. Conf. Potato Virus Dis., Wageningen-Lisse, 13.—17. 8. 1951. 1952, 63—65. (Lab. Bloembollenonderz. Lisse Publ. nr. 94.)

Rozendaal, A., Nieuwe virusproblemen bij de aardappel. (New virus problems in the potato.) Meded. nederl. alg. Keuringsd. Landbouwzaden, Aardappelpootgoed 8. 1952, 94—98 (Lab. Phytopath., Wageningen, Meded. 132).

Schmidt, Bekämpfung der Pfirsichblattlaus in Kartoffelbeständen. Höfchen-Briefe 5. 1952, 75—81, 1 Abb.

Schramm, G., Über die Größe und Gestalt des Kartoffel-Y-Virus. Ztschr. Naturforsch. 7b. 1952, 513—518, 5 Abb.

Schreier, O., Kleine Ursachen — große Wirkungen. [Virusübertragung durch Blattläuse] Pflanzenarzt, Wien, 5. 1952, Nr. 7, S. 4—6.

Shands, W. A., and Landis, B. J., Potato aphids. US Dept. Agric. Yearb. Agric. 1952, 519—527, 3 fig.

Simpson, G. W., Bonde, R., Merriam, D., Akeley, D. F., Manzer, F. E., and Hovey, Ch. L., Procedure in field testing potato seedlings for leafroll resistance. [Corium solani] Maine agric. Exp. Stat. Univ. Bull. 502. 1952, 14 p., 4 fig.

Slagg, C. M., Tuber symptoms of calico. [Marmor medicaginis var. solani] Amer. Potato J. 29. 1952, 123—124, 1 fig.

Sprau, F., Elektronenoptische Darstellung des Blattrollvirus der Kartoffel mit einem kurzen Überblick über die Elektronenmikroskopie in der Virusforschung. Ztschr. Pfl.bau, -schutz 3. 1952, 213—221, 2 Abb.

Stapp, C., und Bartels, R., Fortgeführte Untersuchungen über den Nachweis des X-Virus in Kartoffeldunkelkeimen. Züchter 22. 1952, 298—303, 1 Abb.

Stitt, L. L., and Breakey, E. P., Evidence that aphid control suppressed virus diseases of potatoes and strawberries in northwestern Washington. Meded. Landbouwhoogesch., Opzoek.stat. Gent 17. 1952, 94—110.

Streutgers, E., Beemster, A. B. R., Walrave, J., and Van der Want, J. P. H., Proceedings of the conference on potato virus diseases, Wageningen-Lisse, 13—17 August, 1951. Lab. Bloembollenonderzoek Lisse Publ. nr. 94. 1952, 89 p., 11 fig.

Suchow, K. S., and Wowk, A. M., (Regeneration of morphology of tuber sprouts in the progeny of potato plants affected with big bud.) Trudy Akad. Nauk SSSR, Inst. Genet., 19. 1952, 240—247.

Van der Want, J. P. H., Some remarks on a soil-borne potato virus. Proc. Conf. Potato Virus Dis., Wageningen-Lisse, 13.—17. 8. 1951. 1952, 71—75. (Lab. Bloembollenonderz. Lisse Publ. nr. 94.)

Webb, R. E., and Larson, R. H., Immunological and histological relationship between strains of the potato leafroll virus. Phytopathology 42. 1952, 26 (Abstr.).

Webb, R. E., Larson, R. H., and Walker, J. C., Relationship of potato leafroll virus strains. Wisconsin agric. Exp. Stat. Res. Bull. 178. 1952, 40 p.

Winter, Ursachen des Kartoffelabbaues. [Virus] Dtsch. landw. Presse 75. 1952, 45—46.

Wollner, Prüfung neuer Kartoffelzüchtungen auf Virusresistenz. Landbau-Forschung, Völkenrode, 4. 1952, 86—88, 5 Abb.

Wright, N. S., Studies on the witches' broom virus disease of potatoes in British Columbia. Canad. J. Bot. 30. 1952, 735—742.

Zeller, A., und Fößleitner-Karl, H., Virusnachweis durch Formoltitration? Veröff. Bundesanst. alp. Landw. Admont H. 6. 1952, 138—149.

Bukett-Krankheit verhüten. Bauernbl. Schlesw.-Holst. 6./102. 1952, 736.

Viruskranke Kartoffelbestände. Rhein. Bauernztg. 6. 1952, 776.

b. Rüben
Beets — Betteraves

Allgemeiner Teil
General part — Partie générale

Bogdanow, W., Christowa, E., und Balewski, A., (Schädlinge und Krankheiten der Rüben und ihre Bekämpfung.) Landw.verlag, Sofia 1952. 76 S., 41 Abb.

Cadogan, J. P., Control of seedling diseases in beet. Beet Grower, Dublin, 6. 1952, 70—73.

Coons, G. H., Control of sugar-beet diseases through resistance, 1918—1952. Phytopathology 42. 1952, 482 (Abstr.).

Culpin, C., Sugar-beet harvesting: problems and progress. Agriculture, J. Minist. Agric., London, 59. 1952, 406—410.

Enikeev, S. G., (On pre-planting treatment of sugar-beet seeds with Alpha-naphthaleneacetic acid. Sowjetsk. Agron., Moskwa, 10. 1952, nr. 3, p. 94—96.

Ernould, L., Les ennemis et maladies de la betterave, en Belgique, en 1952. Publ. Inst. belge Amélior. Betterave 20. 1952, 143—173.

Fontana, P., (The chemistry of insecticides and fungicides for sugar-beets.) Ind. sacc. ital., Genova, 45. 1952, 354—361.

Goffart, H., Die Bedeutung der Rübenkrankheiten im westfälischen Raum. Landw. Wochenbl. Westf., Lippe 109 A. 1952, 1655—1656.

Jähnl, G., Ergebnisse der Rübenversuche des Jahres 1951. [Blattkrankheiten] Vers.ergebn. Bundesanst. alp. Landw. Admont H. 16. 1952, 59 Abb.

Kazmaier, H. E., Field investigations of sugar-beet seedling disease control. Phytopathology 42. 1952, 13 (Abstr.).

Lüdecke, H., Die Wirkung der Dynamal-Beize, geprüft an 18 auf das gesamte Bundesgebiet verteilten Zuckerrübensorten-Versuchen im Vergleich zu Albertan-»trocken«. Zucker, Hannover, Nr. 24. 1952, 4 S., 4 Abb.

McKay, R., Sugar-beet diseases in Ireland. Irish Sugar Comp., Ltd., Dublin 1952, VII + 77 p., 37 tab.

Mischling, F., Nährstoffversorgung, Viruskrankheit und Cercospora im Zuckerrübenbau. Oberösterr. Landw.ztg. 24. 1952, Nr. 2, S. 4.

Murawjew, W. A., (Effect of degree of sugar-beet ripeness on resistance of roots [beets] against rot [in storage].) Saharnaia Promyshlennost' (USSR) 26. 1952, 41—43.

Peto, F. H., Smith, W. G., and **Low, F. R.,** Effects of pre-harvest sprays of maleic hydrazide on sugar-beets. Proc. amer. Soc. Sugar Beet Technol. 7. 1952, 101—107.

Petrik, C., (Observations about the appearence of pests and plant diseases on sugar-beet in Voyvodina.) Saschtita Bilja (Plant Prot.), Beograd, nr. 9. 1952, 27—30.

Petruha, O. I., Zhetvin, D. P., Zhitkevich, E. N., Pozhar, Z. P., Skarbilowitsch, T. S., Paly, W. F., and **Putschkow, W. G.,** (Pests and diseases of sugar-beet.) (State Publ. House agric. Lit.), Moskwa 1952. 255 p., 97 fig., 2 tab.

Schneider, F., und **Hoffmann-Walbeck, H. P.,** Über die Plasmolyse in Rübenzellen. Zucker-Beih. 5. 1952, 70 -77.

Stolze, K. V., Einige Krankheiten unserer heranwachsenden Rüben, die wir beachten müssen. Praxis und Forsch. 4. 1952, 85—86.

Winner, C., Zuckerrübenschädlinge in den Vereinigten Staaten. Zucker 5. 1952, 414—416.

Zhorzholadze, K. V., (To adjust the problems in calculating sugar-beet losses.) Sakarnaia Promyshlennost' (USSR) 26. 1952, 19—22.

Lindane seed treatment for beets. Agric. Chem., Baltimore, 7. 1952, nr. 9, p. 73, 127—131.

Nichtparasitäre Krankheiten
Diseases not caused by parasites
Maladies non parasitaires

Armer, A. A., Soil row treatment at planting time. Proc. amer. Soc. Sugar Beet Technol. 7. 1952, 611—613.

Klinteberg, H. B., (Some observations concerning black leg disease on sugar-beets connected with chemical analysis investigations of soils.) Nord. Jordbr.forskn., Kristiania, 34. 1952, 144—150.

Marcus, O., Schäden und Mißbildungen bei Zuckerrüben durch 2, 4 D. Nachr.bl. dtsch. Pfl.schutzd., Braunschweig, 4. 1952, 74—76, 3 Abb.

Peto, F. H., Effect of frost on sugar content in beets. Proc. amer. Soc. Sugar Beet Technol. 7. 1952, 108—111.

Ririe, D., Mikkelsen, D. S., and **Baskett, R. S.,** The effects of maleic hydrazide and 2, 4-D on sugar-beet growth and sugar content in certain field experiments. Proc. amer. Soc. Sugar Beet Technol. 7. 1952, 86—89.

Stout, M., Two year's results evaluating effect of pre-harvest sprays of maleic hydrazide on respiration and spoilage of sugar-beets. Proc. amer. Soc. Sugar Beet Technol. 7. 1952, 95—100.

Ulrich, A., The influence of temperature and light factors on the growth and development of sugar-beets in controlled climatic environments. Agron. J., Washington, 44. 1952, 66—73.

Warmbrunn, K., Ist die Herz- und Trockenfäule jetzt noch zu bekämpfen? Württ. Wochenbl. Landw. 119. 1952, 560.

Watson, R. D., and **Gessel, T.,** Injury to sugar-beets by lightning. Plant Dis. Reptr. 36. 1952, 487—489, 4 fig.

Wittwer, S. H., and **Hansen, C. M.,** Some effects of preharvest foliage sprays of maleic hydrazide on the sugar content and storage losses of sugar-beets. Proc. amer. Soc. Sugar Beet Technol. 7. 1952, 90—94.

Zhetvin, D., (Increasing the sugar content of sugar-beets.) Kolkhoz. Proizvod. (Collect. Farm Prod.) 12. 1952, nr. 7, p. 29.

Hagelschade bij suikerbieten. Suikerbiet, Bergen op Zoom, 6. 1952, 5—9.

Die **Herz- und Trockenfäule** der Zuckerrüben und ihre Bekämpfung. Zuckerrübe 1. 1952, Nr. 3, 1 S.

Ist die Herz- und Trockenfäule jetzt noch zu bekämpfen? Bad. landw. Wochenbl. 119. 1952, 422.

Physiologische ziekten bij suikerbieten. IV. Suikerbiet, Bergen op Zoom, 6. 1952, 9—12.

Die **Rübenherzfäule** ist leicht zu bekämpfen. Rhein. Bauernztg. 6. 1952, 531.

Pflanzliche Feinde
Vegetal parasites — Parasites végétaux

Afanasiev, M. M., and **Morris, H. E.,** Resistance and soil treatment for control of Rhizoctonia of sugar-beets. Proc. amer. Soc. Sugar Beet Technol. 7. 1952, 562—567.

Baldoni, R., (Experiments in the control of Cercospora on sugar-beets.) Ind. sacc. ital., Genova, 45. 1952, 14—20.

Baldoni, R., e **Canova, A.,** Un metodo per il rapido riconoscimento dei semi di barbabietola infettati da Phoma betae (Oud.) Frank. (A method for the rapid detecting of infection of Phoma betae (Oud.) Frank on sugar-beet seeds.) Ann. Sperim. agr., Roma, 6 (n. ser.). 1952, 435—442, 3 fig.

Becker, A., Die Rotfäule der Rüben. [Rhizoctonia violacea] Landw. Ztschr. Nord-Rheinprov. 119. 1952, 1366.

Bernuth, v., Stickstoff gegen Blattfleckenkrankheit? [Cercospora] Dtsch. landw. Presse 75. 1952, 128.

Bitter, H., Hat der Kalkzustand des Bodens Einfluß auf den Cercospora-Befall der Rüben? Mitt. dtsch. Landw.-Ges., Frankfurt/M., 67. 1952, 405—406.

Cormack, M. W., and **Harper, F. R.,** Root diseases of sugar-beets in Alberta. Proc. canad. phytopath. Soc. nr. 20. 1952, 15 (Abstr.).

Donà dalle Rose, A., (Control of Cercospora of sugar-beets.) Mondo agric. (Italia) 3. 1952, nr. 5, p. 4.

Donà dalle Rose, A., (On the biology and control of beet Cercospora.) Mondo agric. (Italia) 3. 1952, nr. 17, p. 4.

Dunleavy, J. M., Control of damping-off of sugar-beet by Bacillus subtilis. Phytopathology 42. 1952, 465.

Gerber, A., Die Cercospora-Blattfleckenkrankheit. Bas-Rhin agric. (France) 7. 1952, 320.

Gerhold, N. R., Henderson, G J., and **Twomey, J. A.,** Soil treatment for control of black-root of sugar-beets. Proc. amer. Soc. Sugar Beet Technol. 7. 1952, 554—556.

Ghillini, C. A., Marciume radicale della bietola zuccherina provocato da Sclerotium Rolfsii. (Die durch Sclerotium Rolfsii erzeugte Wurzelfäule der Zuckerrübe.) Ind. sacc. ital., Genova, 45. 1952, 199—206.

Hills, F. J., and **Leach, L. D.,** The effect of certain soil-row treatments on damping-off of sugar-beet seedlings caused by specific fungi. Proc. amer. Soc. Sugar Beet Technol. 7. 1952, 549—553.

Koch, L. W., Blackroot of sugar-beets. In: Agricultural Research in Canada. Agric. Inst. Canada, Ottawa, 1952, 95—101.

Koch, L. W., and **Hildebrand, A. A.,** An occurrence of a gummosis of sugar-beets in Ontario in 1951. Plant Dis. Reptr. 36. 1952, 196—197, 1 fig.

Kraus, Versuchsergebnisse und Erfahrungen in Cercospora-Bekämpfung. Landw. Wochenbl., München, 142. 1952, 834—835.

Leach, L. D., Seedling diseases of sugar-beets in Ireland. Econ. Coop. Admin. Tech. Asst. Div. 1952, 32 p.

McFarlane, J. S., Breeding for resistance to downy mildew in sugar-beets. Proc. amer. Soc. Sugar Beet Technol. 7. 1952, 415—420.

Malmus, Tagung der Arbeitsgemeinschaft Cercospora-Forschung am 10. und 11. September 1952 in Regensburg. Pflanzenschutz, München, 4. 1952, 116—117.

Malmus, N., Die Cercospora-Blattfleckenkrankheit der Rübe und ihre Bekämpfung. Mitt. dtsch. Landw.-Ges., Frankfurt/M., 67. 1952, 531—533, 7 Abb.

Malmus, R., Kupferspritzungen gegen das Dürrwerden der Rübenblätter infolge Cercosporabefalls. Landw. Wochenbl., München, 142. 1952, 917—919, 2 Abb.

Margara, J., Comportement des variétés de betterave sucrière à l'égard du Cercospora problèmes que pose l'obtention de types résistants. Ann. Amélior. Plantes, Paris, 2. 1952, 215—229.

Murawjew, W. A., (Influence of the degree of maturity of sugar-beets on the resistance of roots to rot.) [Botrytis cinerea] (Sugar Ind., Moscow), nr. 1. 1952, 41—43.

Peterson, D. F., and **Cormany, C. E. A.,** A new leaf-spot-resistant variety. Proc. amer. Soc. Sugar Beet Technol. 7. 1952, 383—384.

Plotho, O. v., Weitere Untersuchungen zur Zytologie und Morphologie der Cercospora beticola. Zucker, Hannover, 5. 1952, 379—383.

Priefer, H., Alldog-Einsatz gegen Cercospora mit Vitigran conc. im Bereiche der Zuckerfabrik Bockenem. Zuckerrübe Nr. 6. 1952, 4 S., 3 Abb.

Rademacher, B., Die Cercospora-Blattfleckenkrankheit bei Zuckerrüben. Zucker, Hannover, 5. 1952, Nr. 16, 4 S.

Rademacher, B., Verhinderung und Bekämpfung der Blattfleckenkrankheit der Rüben (Cercospora). Württ. Wochenbl. Landw. 119. 1952, 284.

Sarasola, A. A., y **Garese, P.,** Tratamiento de la semilla de remolacha azucarera contro Pythium ultimum, con altos concentraciones de sulfato de cobre. (Treatment of sugar-beet seed against Pythium ultimum with high concentrations of copper sulphate.) Phyton 2. 1952, 36—44, 2 tab.

Schneider, C. L., Host range of the sugar-beet root rot fungus, Aphanomyces cochlioides Drechs. Phytopathology 42. 1952, 18 (Abstr.).

Schneider, C. L., and **Johnson, H. G.,** The production of zoospore inoculum of Aphanomyces. Phytopathology 42. 1952, 18 (Abstr.).

Schürnbrand, E., Ein Beitrag zur Frage der Bedeutung der Sameninfektion durch Cercospora beticola. Zucker, Hannover, 5. 1952, 295—299.

Stewart, D., The development of Cercospora leaf spot resistant monogerm sugar-beets. Phytopathology 42. 1952, 344.

Stewart, D., Observations on F 2 and F 3 generations of the sugar-beet hybrid, leaf spot resistant multigerm × monogerm SLC 101. Proc. amer. Soc. Sugar Beet Technol. 7. 1952, 364—370.

Twomey, J. A., Factors affecting the growth of Fusarium oxysporum f. betae. J. Colorado-Wyoming Acad. Sci. 4. 1952, 73—74.

Warmbrunn, K., Die Blattfleckenkrankheit der Rüben droht! Württ. Wochenbl. Landw. 119. 1952, 583.

Warmbrunn, K., Was ist gegen die Blattfleckenkrankheit der Rüben jetzt zu tun? Württ. Wochenbl. Landw. 119. 1952, 946.

Die **Blattfleckenkrankheit** der Rüben. Landw. Ztschr. Nord-Rheinprov. 119. 1952, 1139—1140, 1 Abb.

Die **Blattfleckenkrankheit** der Rüben droht! Bad. landw. Wochenbl. 119. 1952, 467—468.

Die **Cercospora-Blattfleckenkrankheit** der Zuckerrüben. Richtlinien zu ihrer Bekämpfung für das Gebiet Niedersachsen. Hannov. land-, forstw. Ztg. 105. 1952, 657.

Unkräuter
Weeds — Mauvaises herbes

Andersen, E. T., Chemical weed control studies brought under control with sugar-beets. Proc. north centr. Weed Control Conf. 9. 1952, 77.

Bordeleau, R., L'éradication des mauvaises herbes dans les cultures de betteraves sucrières. Ann. Assoc. canad.-franç. Avanc. Sci. 18. 1952, 63—65.

Cormany, C. E., and Eckroth, E. G., Results with TCA on barnyard grass [Echinochloa crusgalli] control in sugar-beets in Montana and Wyoming. Proc. amer. Soc. Sugar Beet Technol. 7. 1952, 126—127.

Downie, A. R., Ogden, D. B., and Tanner, J. C., Results of experiments on chemical weed control in sugar-beets. Proc amer. Soc. Sugar Beet Technol. 7. 1952, 128—133.

Eickstedt, H. v., Derzeitiger Stand der Unkrautbekämpfung im Zuckerrübenbau in den USA. Zucker, Hannover, 5. 1952, Nr. 4, S. 65—66.

Giardini, A., (Influence of weeding on sugar-beet production.) Ind. sacc. ital., Genova, 45. 1952, 180—185.

Helgeson, E. A., Sugar-beets. North centr. Weed Control Conf. Res. Rept. 9. 1952, 139—141.

Kaudy, J. C., Berger, K. C., and Truog, E., Borax applications to canning and sugar-beets for the control of weeds. Agron. J., Washington, 44. 1952, 409—410.

Kloor, L. A., Chemical weed control. Calif. Sugar Beet 1952, 48—49.

Nelson, R. T., Control of wild oats and volunteer grain in sugar-beets with IPC. Proc. north centr. Weed Control Conf. 9. 1952, 73—75.

Nelson, R. T., IPC controls wild oats and volunteer grain in sugar-beets. Through Leaves (Great West. Sugar Comp.) 40. 1952, nr. 4, p. 10—15.

Nelson, R. T., Trials with herbicides for weed control in sugar-beets. Proc. amer. Soc. Sugar-Beet Technol. 7. 1952, 121—125.

Robinson, P. T., and Quamme, A. G., Results obtained by sugar-beet growers through the use of TCA for the control of pigeon grass in southern Minnesota and northern Iowa during 1951. Proc. amer. Soc. Sugar Beet Technol. 7. 1952, 134—135.

Tierische Feinde
Animal parasites — Parasites animaux

Aldrovandi, A., (Insects of the 1952 beet season.) Ind. sacc. ital., Genova, 45. 1952, 338—343.

Balewski, A., Zweklowijat molez i borbata s nego. (Rübenmotte und ihre Bekämpfung.) (Landw.-Minist., Staatsverl. »Semisdat«, Sofia 1952. 15 p., 2 tab.

Claassen, G. E., Cut worm control. Crystalized Facts Sugar Beets 6. 1952, nr. 2, p. 14—15.

Del Cañizo, J., Las plagas de la remolacha. Siembra (España) 8. 1952, nr. 11, p. 14—17.

De Vecchi, G., (A terrible insect has awakened serious apprehensions among the Italian beet producers in the last few years.) [Cleonus mendicus] Mondo agric. (Italia) 3. 1952, nr. 11, p. 4.

Djurić, J., (Lixus subtilis Sturm — a little known enemy of sugar-beet.) Vojvodanski Poljoprivrednik (Jugoslavija) 8. 1952, nr. 11, p. 14—15.

Dorst, H. E., and Knowlton, G. F., Beet leafhopper [Circulifer tenellus] control. Utah State agric. Coll. Ext. Circ. 158. 1952, 2 p.

Douglass, J. R., and van Romney, E., Comparative toxicity of some new insecticides to the beet webworm in Colorado, 1951. [Loxostege sticticalis] Agric. Bull. (Shell) ADB. 147. 1952, 5 p. (Amer. Soc. Sugar Beet Technol. Pap. 5.—6. 2. 1952).

Ehrenhardt, H., Zur Bekämpfung von Engerlingen an Zuckerrüben mit Hexapräparaten. Nachr.bl. dtsch. Pfl.schutzd., Braunschweig, 4. 1952, 117—121, 1 Abb.

Gersdorf, Moosknopfkäfer an Rübenstecklingen. Gesunde Pflanzen 4. 1952, 64—65.

Ghidini, G. M., (The »cleono« of sugar-beets and the extension of its area of distribution.) Ind. sacc. ital., Genova, 45. 1952, 23—25.

Haine, E., Studien zur Biologie des Zuckerrübenrüßlers (Tanymecus palliatus F.). Anz. Schädl.kunde 25. 1952, 36—41.

Heidenreich, E., und Schneider, S., Versuche zur Engerlingsbekämpfung im Zuckerrübenanbau im Jahre 1951. Merck-Blätter, Darmstadt, F. 4. 1952, 12 S., 1 Abb.

Hubert, K., Wichtige Hinweise zur Bekämpfung der Rübenblattwanze! Pfl.schutzamt Sachsen-Anhalt Merkbl. Nr. 57. 1952, 5. Aufl., 8 S., 4 Abb.

Jones, E. W., Douglass, J. R., Parrish, C. P., and Jensen, V., Experiments on control of the sugar-beet root maggot. [Tetanops myopaeformis] Proc. amer. Soc. Sugar Beet Technol. 7. 1952, 490—496.

Jones, E. W., Douglass, J. R., Parrish, C. P., and **Jensen, V.,** Sugar-beet root maggot control experiments. [Tetanops myopaeformis] Agric. Bull. (Shell) ADB: 145. 1952, 9 p. (Amer. Soc. Sugar Beet Technol., Utah, 5.—6. 2. 1952).

Kretić, M., (Beet moth (Gnorimoschema ocellatella) — a serious enemy of sugar-beet.) Vojvodanski Poljoprivrednik (Jugoslavija) 8. 1952, nr. 14, p. 25.

Leavitt, F. H., Observations on the mechanics of soil fumigation. Proc. amer. Soc. Sugar Beet Technol. 5. 1948, 509—513.

Lüders, W., Erfahrungen mit Gamma-Mitteln bei der Engerlingbekämpfung in Zuckerrüben. Mitt. dtsch. Landw.-Ges., Frankfurt/M., 67. 1952, 259—261.

Mast, A. A., and **Morrow, W. B.,** Control of the salt marsh caterpillar [Estigmene acraea] in sugar-beets grown for seed. Proc. amer. Soc. Sugar Beet Technol. 7. 1952, 507—510.

Melis, A., e **Marinari, A.,** Nuovo contributo alla ricerca dei mezzi di lotta contro il Cleono delle bietole (Temnorrhinus mendicus Gyll.). »Redia«, Giorn. Ent., Firenze, 37 (2. ser.). 1952, 283—308, 3 fig.

Müller, K. R., Vier Jahre Derbrüßler-Bekämpfung in Sachsen-Anhalt. [Bothynoderes punctiventris] Nachr.bl. dtsch. Pfl.schutzd., Berlin, NF. 6. 1952, 1—8, 3 Abb.

Ostrowskij, N. I., (Peculiarities in the control of sugar-beet pests in the Baltic Area.) Sacharnaia Promyshlennost' (USSR) 26. 1952, nr. 5, p. 41—42.

Rademacher, B., Erfahrungen über die Verhütung und Behebung der Engerlingsschäden im Rübenbau. Merkbl. dtsch. Landw.-Ges., Frankfurt/Main, Nr. 14. 1952, 12 S.

Rademacher, B., Was kann man in den diesjährigen Rübenfeldern noch gegen die Engerlinge tun? Württemb. Wochenbl. Landw. 119. 1952, 259—260.

Schreier, O., Maden in Rübenblättern. [Rüben- oder Runkelfliege] Pflanzenarzt, Wien, 5. 1952, Nr. 8, S. 7—8.

Schreier, O., Mit dem Rübenerdfloh [Chaetocnema tibialis] fängt es an. Pflanzenarzt, Wien, 5. 1952, 6.

Schreier, O., Rübenaaskäfer und »Asseln«. Pflanzenarzt, Wien, 5. 1952, Nr. 7, S. 7, 1 Abb.

Schreier, O., Die wichtigsten Rübenrüsselkäfer. [Cleonus sp.] Pflanzenarzt, Wien, 5. 1952, 6—7.

Sirotti, G., (Cultivation of sugar-beets and control of Cleonus.) Romagna agric., zootecn., Ravenna, 37. 1952, nr. 5, p. 1—2.

Tielecke, H., Biologie, Epidemiologie und Bekämpfung des Rübenderbrüßlers (Bothynoderes punctiventris Germ.). Beitr. Ent., Berlin, 2. 1952, 256—315, 10 Abb.

Tielecke, H., Ist der »Aschenfarbige Rüsselkäfer« Pseudocleonus cinereus Schrnk. ein Rübenschädling? Nachr.bl. dtsch. Pfl.schutzd., Berlin, NF. 6. 1952, 104—107, 3 Abb.

Tielecke, H., Untersuchungen über den Rübenderbrüßler. [Bothynoderes punctiventris] Dtsch. Landw. 3. 1952, 629—632, 3 Abb.

Wellmer, Schützt die Rüben gegen Engerlingsschäden! Bauernbl. Schlesw.-Holst. 6./102. 1952, 452.

Nematodes

Bernard, J., Recherches sur les plantes-hôtes de Ditylenchus dipsaci Kühn provenant de betteraves fourragères. Parasitica, Gembloux, 8. 1952, 28—39, 2 fig.

Goffart, H., Ansteigen und Abklingen der Nematodenverseuchung und ihre Bewertung im Rübenanbau. Zucker, Hannover, Nr. 14. 1952, 2 S., 1 Abb.

Goffart, H., und **Heiling, A.,** Vergilbekrankheit der Rüben und Kartoffelnematoden. Landw. Wochenbl. Westf., Lippe 109 A. 1952, 436.

Hijner, J. A., De gevoeligheid van wilde bieten voor het bietencystenaaltje (Heterodera Schachtii). (The susceptibility of wild beets for Heterodera Schachtii). Meded. Inst. rat. Suikerprod., Bergen op Zoom, 21. 1951 (1952), 1—13, 16 fig.

Kotthoff, P., Die Wurmfäule der Runkel- und Zuckerrüben. [Ditylenchus dipsaci] Gesunde Pflanzen 4. 1952, 315—316, 1 Abb.

Lawlor jr., N., Field control of sugar-beet nematode. Crystalized Facts Sugar-Beets 6. 1952, nr. 2, p. 15—16.

Schreier, O., »Bärtige« Rüben. Pflanzenarzt, Wien, 5. 1952, Nr. 8, S. 5.

Schuster, L. M., Host range of the root-knot nematode of western Nebraska. Proc. amer. Soc. Sugar Beet Technol. 7. 1952, 519—524.

Schuster, L. M., and **Harris, L.,** Effects of crop rotation on the incidence of root-knot disease of sugar-beets in western Nebraska. Proc. amer. Soc. Sugar Beet Technol. 7. 1952, 511—518.

Thorne, G., Control of the sugar-beet nematode. US. Dep. Agric. Farmer's Bull. nr. 2054. 1952.

Virus

Armitage, H. M., Controlling curly top virus in agricultural crops by reducing populations of overwintering beet leafhoppers. J. econ. Ent. 45. 1952, 432—435, 3 fig.

Bennett, C. W., Vein clearing on sugar-beet induced by the beet leafhopper. [Circulifer tenellus] Phytopathology 42. 1952, 535—537, 1 fig.

Björling, K., On the significance of different vectors of sugar-beet virus yellows. Acta agric. Scand., Stockholm, 2. 1952, 258—278, 2 fig.

Coons, G. H., Sugar-beet virus yellows in United States. Phytopathology 42. 1952, 341 (Abstr.).

Coons, G. H., Virus yellows of beet of the United States. Plant Dis. Reptr. 36. 1952, 356—363.

Douglass, J. R., and **Cook, W. C.,** The beet leafhopper. US Dept. Agric. Yearb. Agric. 1952, 544—550.

Ernould, L., La jaunisse de la betterave. Publ. Vulg. Inst. belge Amélior. Betterave 1. 1952, 1—15.

Giddings, N. J., Some host and vector relationships of the curly-top virus. Proc. amer. Soc. Sugar Beet Technol. 7. 1952, 525—532.

Giddings, N. J., Two recently isolated curly-top virus strains. [Circulifer tenellus] Phytopathology 42. 1952, 514 (Abstr.).

Goffart, H., und **Heiling, A.,** Vergilbekrankheit der Rüben und Kartoffelnematoden. Landw. Wochenbl. Westf., Lippe 109 A. 1952, 436.

Hartsuijker, K., De vergelingsziekte der bieten. I. Samenvattend verslag over het onderzoek in de jaren 1940—1948. [virus yellows of the sugar-beet] Meded. Inst. rat. Suikerprod., Bergen op Zoom, 2. 1952, 275 p.

Hirschfeld, Beobachtungen über die Vergilbungskrankheit bei Rüben. Mitt. dtsch. Landw.-Ges., Frankfurt/M., 67. 1952, 997—998.

Hiyner, J. A., De vergelingsziekte in 1951. Suikerbiet, Bergen op Zoom, 5. 1952, 75—84.

Hull, R., Can virus yellows be avoided in 1952? Careful watch on sugar-beet and mangold seed crops. Brit. Farmer, London, 44. 1952, 7.

Hull, R., Control of virus yellows in sugar-beet seed crops. J. R. agric. Soc., London, 113. 1952, 86—102.

Hull, R., The virus yellows war is not jet won. Brit. Sugar Beet Rev., London, 21. 1952, 29—32.

Lackey, C. F., Anatomical studies of injury to sugar-beets induced by three strains of the curly-top virus. Proc. amer. Soc. Sugar Beet Technol. 7. 1952, 532—535.

Leib, E., Erste internationale Yellow-Konferenz. Es geht um die Erhaltung des westeuropäischen Zuckerrübenanbaues! Gesunde Pflanzen 4. 1952, 300—302, 2 Abb.

Löhr, E., und **Müller, D.,** Die Respiration von gesunden und viruskranken Zuckerrüben. Physiol. Plantarum, København, 5. 1952, 218—220.

Lüdecke, H., (»Virus yellow« — a menace to European beet cultivation.) F. O. Licht, int. Zucker-ber. 91 (Spez. Nr.). 1952, 16—20.

McFarlane, J. S., and **Price, C.,** A new non-bolting, curly-top resistant sugar-beet variety, U. S. 75. Proc. amer. Soc. Sugar Beet Technol. 7. 1952, 384—386.

Mulder, F., (Yellows in beets.) Landbode 6. 1952, nr. 40, p. 1.

Murphy, A. M., and **Douglass, J. R.,** Effect of DDT on beet leafhoppers (Circulifer tenellus), curly top, and yields of sugar-beet varieties. Proc. amer. Soc. Sugar Beet Technol. 7. 1952, 497—502.

Murphy, A. M., Ryser, G. K., and **Owen, F. V.,** Performance of F_1 hybrids between curly-top susceptible sugar-beets. Proc. amer. Soc. Sugar Beet Technol. 7. 1952, 390—392.

Murphy, A. M., and **Savitsky, V. F.,** Breeding for resistance to curly-top in hybrids with monogerm beets. Proc. amer. Soc. Sugar Beet Technol. 7. 1952, 387—389.

Pequignot, R., La jaunisse et la culture directe des porte-graines de betteraves sucrières. Motoris. agric., Paris, 7. 1952, 465, 467.

Rietberg, H., De vergelingsziekte der bieten. II. Avanvullende opmerkingen bij het verslag over 1940—1948. (Virus yellows of the sugar-beet. II. Additional remarks to the report on the years 1940 bis 1948.) Meded. Inst. rat. Suikerprod., Bergen op Zoom, 3. 1952, 277—291.

Rietberg, H., Virus yellow in western Europe. Proc. amer. Soc. Sugar Beet Technol. 7. 1952, 536—539.

Schlösser, L.-A., Zur Frage der Wanderung europäischer Rübenvirosen. Phytopath. Ztschr. 20. 1952, 75—82.

Sedlag, U., Die Vergilbungskrankheit der Rübe. [Myzodes persicae, Doralis fabae] Pfl.schutzamt Sachsen-Anhalt Merkbl. Nr. 72. 1952, 6 S., 1 Farbtaf.

Steudel, Zur Vergilbungskrankheit bei Zucker- und Futterrüben. Möglichkeiten zur Verringerung der Ertragsausfälle. Landw. Ztschr. Nord-Rheinprov. 119. 1952, 285—286, 1 Abb.

Steudel, W., Zur Frage der Bekämpfung der Vergilbungskrankheit der Beta-Rüben durch Überträgerabtötung mit chemischen Mitteln. I. Die Wirkung des Präparates »Systox« auf die Blattlauspopulation der Beta-Rüben. Ztschr. Pfl.krankh. 59. 1952, 418—430, 8 Abb.

Steudel, W., und **Heiling, A.,** Der Einfluß der Saatzeit auf Auftreten und Ausbreitung der Vergilbungskrankheit der Beta-Rüben. Nachr.bl. dtsch. Pfl.-schutzd., Braunschweig, 4. 1952, 40—44, 2 Abb.

Steudel, W., und **Heiling, A.,** Die Vergilbungskrankheit der Zuckerrübe. Mitt. dtsch. Landw.-Ges., Frankfurt/M., 67. 1952, 392—393.

Stolze, K. V., Die Rüben-Vergilbungskrankheit und ihre Bekämpfung. Landw.bl. Weser-Ems 34. 1952, 833—834.

Strudel, La jaunisse de la betterave. Agriculture, Paris, 16. 1952, 284—285.

Sylvester, E. S., Comparative transmission of beet-mosaic virus by four aphid species. [Myzus persicae, M. solani, M. circumflexus, Aphis apii] Phytopathology 42. 1952, 252—254.

Taubitz, A., Maßnahmen gegen die Vergilbungskrankheit der Rüben. Gesunde Pflanzen 4. 1952, 77—79.

Taubitz, A., Verminderung der Vergilbungsschäden an Rüben. Ztschr. Zuckerind. 2 (n. F.). 1952, Nr. 2, S. 57—58.

Taubitz, A., Weitere Erfahrungen bei der Bekämpfung der Rübenwanzenkräuselkrankheit. Zucker, Hannover, 5. 1952, 179—180.

Traversi, B. A., Virus de la remolacha azucarera. IDIA (Inform. Invest. agríc.), Buenos Aires, 5. 1952, nr. 57, p. 17—18.

Van Galen, J., (The control of yellows in beets.) [sugar-beets] Landbouwberichten 7. 1952, 206.

Watson, M. A., Beet yellows virus and other yellowing virus diseases of sugar-beet. Rothamsted Exp. Stat., Harpenden, Rept. 1951. 1952, 157—167.

Wenzl, H., Möglichkeiten der Vergilbungsbekämpfung. Pflanzenarzt, Wien, 5. 1952, Nr. 8, S. 5—7.

Extra nummer over de vergelingsziekte. Suikerbiet, Bergen op Zoom, 6. 1952, 23—35.

4. Hülsenfrüchte und Gräser
Legumes and grasses — Légumineuses et graminées

a. Allgemeiner Teil
General part — Partie générale

Allison, J. L., Rhizoctonia solani, a foliage pathogen of forage legumes and grasses in south-eastern United States. Phytopathology 42. 1952, 281 (Abstr.).

Allison, J. L., Wells, J. C., and **Wells, H. D.,** Pasture and forage legume and grass diseases in North Carolina in 1950 and 1951. Plant Dis. Reptr. 36. 1952, 60.

Cormack, M. W., Winter crown rot or snow mold of alfalfa, clovers, and grasses in Alberta. II. Field studies on host and varietal resistance and other factors related to control. Canad. J. Bot. 30. 1952, 537—548.

Jenkins, C. F. H., and **Forte, P. N.,** The webworm (Talis pedionoma Meyr.)? J. Dept. Agric. West. Austr. 1. 1952, 187—193, 6 fig.

Vermes, M., (Pest control of cereals and fodder plants.) Hassadeh, Tel-Aviv, 32. 1952, 220—221.

Virtanen, A. I., Hietala, P. K., and **Wahlroos, Ö.,** Antimicrobial substances in cereals and fodder plants. Arch. Biochem., Biophys., New York, 69. 1957, 486—500, 4 fig.

b. Hülsenfrüchte
Legumes — Légumineuses

Allgemeiner Teil
General part — Partie générale

Bremer, H., ve **Biyikoğlu, K.,** Baklïyat ve sebze tohumlarí üzerinde ilâçlaclama denemeleri. (Beizversuche mit Samen von Hülsenfrüchten und Gemüsen.) Bitki Koruma Bülteni (Bull. Plant Prot.), Ankara, nr. 1. 1952, 16—28.

Cohen, G., (Low volume spraying for the control of weeds in vetch and peas.) Hassadeh, Tel-Aviv, 32. 1952, 222—223.

Cooper, G. S., Corns, W. G., Pre-harvest chemical top killing of legume seed crops. II. General effects of cyanamid compounds. Sci. Agric., Ottawa, 32. 1952, 281—284.

Dadd, C. V., Chemical control of weeds in peas and lucerne. J. Inst. Corn, agric. Merch., London, 3. 1952, 173.

Fukano, H., and **Yokoyama, S.,** (On a necrotic virus disease of broad bean, garden pea and spring vetch.) Kyushu Noji Shikenjo 10. 1952, 133—134.

Juscafresa, B., Los parásitos de las leguminosas. [Cuscuta, Orobanche] Ceres, Valladolid, 17. 1952, nr. 189, p. 9, 11.

Keyder, S., Baklagil tohum böceği (Bruchus pisorum). (Der Leguminosen-Samenkäfer (Bruchus pisorum).) Tomurcuk, Istanbul, 1952, nr. 3, p. 9.

Li, Ch. S., External morphology and internal anatomy of the blister beetle, Mylabris phalerata Pall. [on leguminous plants] Essays, Pap. Mem. Late Pres. Nat. Taiwan Univ. Dec. 1952, 505—554, 11 tab. (Ent. Lab., Coll. Agric., Nat. Taiwan Univ. Contrib. nr. 4, 50 p.)

Miller, J. H., Leguminous forages. [weeds] North centr. Weed Control Conf. Res. Rept. 9. 1952, 107—115.

Miller, J. H., and **Dunham, R. S.,** Spraying for weed control — will it work with legumes? Minnesota Farm, Home Sci. (Minnesota Stat.) 9. 1952, nr. 3, p. 3, 12.

Petty, H. B., and **White, C. E.,** Control of (meadow) spittlebugs (Philaenus lecophthalmus) on legumes. Illinois agric. Coll. Ext. Circ. 689. 1952, 6 p.

Quantz, L., Die wichtigsten Viruskrankheiten der heimischen Leguminosen. Saatgut-Wirtschaft 4. 1952, 34—37, 6 Abb.

Weaver, C. R., Meadow spittlebug control with low and high volume insecticide applications. [Philaenus leucophthalmus on legumes] J. econ. Ent. 44. 1951, 162—166.

Wilson, M. C., Resistance and damage studies on legumes. Proc. amer. Assoc. econ. Entomologists, North Centr. States Br., 7. 1952, 29—31.

Zangheri, S., Contributi alla conoscenza dell'Entomofauna delle Leguminose da seme. Boll. Ist. Ent. Univ. Bologna 18. 1950—1951, 93—116, 10 fig.

Lens, Phaseolus, Pisum, Soja

Allgemeiner Teil
General part — Partie générale

Andersen, A. L., and **DeZeeuw, D. J.,** Pea seed treatment investigations. (Report of progress.) Michigan agric. Exp. Stat. Quart. Bull. 35. 1952, 25—33.

Bockmann, H., Über Auflaufschäden an Erbsen. Ztschr. Pfl.krankh. 59. 1952, 241—248.

Crall, J. M., Soybean diseases in Iowa in 1951. Plant Dis. Reptr. 36. 1952, 302.

Hafner, F. H., Why controlled heat-treatment is necessary in soybean processing. Soybean Digest 12. 1952, nr. 5, p. 20—22.

Hagedorn, D. J., Experiments with pea seed protectants in Wisconsin. Phytopathology 42. 1952, 10 (Abstr.).

Hoffman, J. C., and **Kanapaux, M. S.,** Wade, a new all purpose snap bean. [disease resistance] Seed World 70. 1952, nr. 2, p. 38—39, 46, 1 fig.

Hungerford, C. W., Disease resistant field beans for Idaho. Idaho agric. Exp. Stat. Circ. 118. 1952, 11 p.

Menzies, J. D., Observations on the introduction and spread of bean diseases into newly irrigated areas of the Columbia basin. Plant Dis. Reptr. 36. 1952, 44—47.

Miller, P. R., Materials for heat treatment of peas and beans. Combined seed treatment and seed inoculation studies with soybeans. Agric. Chem., Baltimore, 7. 1952, p. 87, 89, 91, 123.

Nugent, T. J., and **Hofmaster, R. N.,** Snap bean seed treatment trials. Veg. Growers News (Virginia agric. Coll. Ext.) 7. 1952, nr. 2, 2 p. (Agric. Bull. (Shell), 2 p.).

Riepma, P., Seed treatment in peas with modern prophylactic agents (series 200) in the year 1951. Gestencilde Versl. interprov. Proeven Centr. Inst. landbouw.kdg. Onderz. 1952, nr. 27, 17 p.

Sherf, A. F., and **Reddy, C. S.,** Seed treatment and inoculation studies on soybeans in Iowa fields, 1950—1951. Phytopathology 42. 1952, 19 (Abstr.).

Speyer, W., und **Bockmann, H.,** Krankheiten und Schädlinge der Erbsen und Bohnen. Biol. Bundesanst. Braunschweig Flugbl. G 1. 1952, 12 S., 9 Abb.

Van Dinther, J. B. M., (The most important pests in bean culture.) Groenten en Fruit 7. 1952, 763—766.

Wark, D. C., Treatment of pea and bean seed. Austr. Plant Dis. Recorder 4. 1952, 16.

Warmbrunn, K., Samenschädlinge in Bohnen und Erbsen. Württ. Wochenbl. Landw. 119. 1952, 25. — Bad landw. Wochenbl. 119. 1952, 87.

Wiskerke, D., (Is pea culture still risky?) Maandbl. Landbouwvoorl.dienst, 's-Gravenhage, 9. 1952, 460—461.

Nichtparasitäre Krankheiten
Diseases not caused by parasites
Maladies non parasitaires

Bradbury, D., and **Ennis jr., W. B.,** Stomatal closure in Kidney bean plants treated with ammonium 2, 4-dichlorophenoxyacetate. Amer. J. Bot. 39. 1952, 324—328, 5 fig.

Brown, J. W., and **Weintraub, R. L.,** Influence of temperature on formative response of bean seedlings to 2, 4-dichlorophenoxyacetic acid. Bot. Gaz., Chicago, 113. 1952, 479—482.

Capoor, S. P., Observation on the sterility disease of pigeon pea. Indian J. agric. Sci. 22. 1952, 271—274, 1 tab.

Casida, J. E., Chapman, R. K., and **Allen, T. C.,** Relation of absorption and metabolism of octamethylpyrophosphoramide by pea plants to available phosphorus. J. econ. Ent. 45. 1952, 568—578, 3 fig.

Culver, W. H., and **Cain, R. F.,** Nature, causes and correction of discoloration of canned blackeye and purple hull peas. Texas agric. Exp. Stat. Bull. 748. 1952, 23 p.

Day, B. E., The absorption and translocation of 2, 4-dichlorophenoxyacetic acid by bean plants. Plant Physiol., Lancaster, 27. 1952, 143—152.

DeZeeuw, D. J., and **Andersen, A. L.,** Response of pea varieties to dry and slurry methods of seed treatment. Phytopathology 42. 1952, 52—56, 2 fig.

Freiberg, S. R., and **Clark, H. E.,** Effects of 2, 4-dichlorophenoxyacetic acid upon the nitrogen metabolism and water relations of soybean plants grown at different nitrogen levels. Bot. Gaz., Chicago, 113. 1952, 322—333.

Furutani, Y., and **Kukii, M.,** (On the fruiting habits of soybeans. IV. Effects of partial defoliation and solid planting on pod development.) Kyushu Noji Shikenjo 9. 1952, 47—48.

Harries, C. S., Effects of certain insecticides and related chemicals on photosynthesis in cucumbers and beans. Proc. amer. Soc. hortic. Sci. 60. 1952, 335—340.

Holley, R. W., Studies of the fate of radioactive 2, 4-dichlorophenoxyacetic acid in bean plants. II. A water-soluble transformation product of 2,4-D. Arch. Biochem., Biophys., New York, 35. 1952, 171—175.

Humphries, E. C., The absorption of ions by excised root systems. III. Observations on roots of pea plants grown in solutions deficient in phosphorus, nitrogen, or potassium. J. exp. Bot. 3. 1952, 291—309.

Jacks, H., Seed disinfection. II. Effect of various chemicals on the emergence of lettuce and pea seedlings. New Zealand J. Sci., Technol. (A) 34. 1952, 122—125.

Jaworski, E. G., and **Butts, J. S.,** Studies in plant metabolism. II. The metabolism of C^{14}-labelled 2, 4-dichlorophenoxyacetic acid in bean plants. Arch. Biochem., Biophys., New York, 38. 1952, 207—218.

Johnson, C. M., and **Hoskins, W. M.,** The relation of acids and peroxides in spray oils to the respiration of sprayed bean leaves and the development of injury. Plant Physiol., Lancaster, 27. 1952, 507—525.

Kerling, L. C. P., Beschadiging en schimmelaantasting bij erwten als gevolgen van nachtvorst. (Damage and attack by fungi as consequences of late frosts on peas.) Tijdschr. Plantenziekten 58. 1952, 29—54, 10 fig.

Lent, J. M., and **Scarchuk, J.,** Effect of boron on snap beans. A progress report. Storrs agric. Exp. Stat., Coll. Agric. (Connecticut), INF—35. 1952, 7 p.

MacGillivray, J. H., et al., Spacing effect on the yield of green lima beans for freezing. Proc. amer. Soc. hortic. Sci. 60. 1952, 330—334.

Meletti, P., (Histologic reactions in seedlings of Pisum sativum L. treated with hormons.) [2, 4-D used in the study] Nuovo Giorn. bot. ital. 58. 1952, 305—317.

Rebstock et al., Effect of 2, 4-dichlorophenoxyacetic acid on proteolytic activity of red kidney bean plants. Plant Physiol., Lancaster, 27. 1952, 639—643.

Rompietti, A., Rilievi sui rendimenti e sul potere germinativo della soia in ambiente siccitoso. (Observations on the yields and germinative power of the soybean in droughty cropping seasons.) Ann. Sperim. agr., Roma, 6 (n. ser.). 1952, 1307—1329.

Spencer, J. L., Effects of intense ultrasonic vibrations on Pisum. I. Effects on root meristems. II. Effects on growth and their inheritance. Growth 16. 1952, 243—254, 255—277.

Takijima, Y., and **Hayashi, T.,** (The nutrient absorption of soybean plants as influenced by 2, 4-D spray.) J. Sci. Soil, Manure, Tokyo, 23. 1952, 319—322.

Viets jr., F. G., Control of zinc deficiency in field beans with zinc sulphate sprays. Washington agric. Exp. Stat. Circ. 143. 1952, 3 p.

Wade, G. C., Why did many Greenfeast pea crops fail on the North West Coast. [molybdenum deficiency] Tasmanian J. Agric. 23. 1952, 153—156, 2 fig.

Wadleigh, C. H., and **Brown, J. W.,** The chemical status of bean plants afflicted with bicarbonate-induced chlorosis. Bot. Gaz., Chicago, 113. 1952, 373—392.

Weintraub, R. L., Brown, J. W., Fields, M., and **Rohan, J.,** Metabolism of 2, 4-dichlorophenoxyacetic acid. I. $C^{14}O_2$ production by bean plants treated with labelled 2, 4-dichlorophenoxyacetic acids. Plant Physiol., Lancaster, 27. 1952, 293—301.

Weintraub, R. L., Yeatman, J. N., Lockhart, J. A., Reinhart, J. H., and **Fields, M.,** Metabolism of 2, 4-dichlorophenoxyacetic acid. II. Metabolism of the side chain by bean plants. Arch. Biochem., Biophys., New York, 40. 1952, 277—285.

Pflanzliche Feinde
Vegetal parasites — Parasites végétaux

Afanasiev, M. M., Morris, H. E., and **Metcalf, H. N.,** Control of bacterial halo-blight disease of garden beans in Montana. [Pseudomonas phaseolicola (Burk.) Dows.] Plant Dis. Reptr. 36. 1952, 135—136.

Andersen, A. L., Control of bean anthracnose in navy pea beans by seed treatment. [Colletotrichum lindemuthianum] Phytopathology 42. 1952, 1 (Abstr).

Andersen, A. L., and **DeZeeuw, D. J.,** Seed treatment studies for damping-off control in garden and canning beans. Report of progress. Michigan agric. Exp. Stat. Quart. Bull. 34. 1952, 357—364.

Angell, H. R., Seedling blight. V. A new soil moisture relationship to the disease in peas. VI. The effect of mixtures of unsterilized soils and of reinfesting soils on seedling blight of poppies and peas. [Pythium ultimum, P. mamillatum] J. austr. Inst. agric. Sci. 18. 1952, 99—101. — Austr. J. agric. Res. 3. 1952, 128—136.

Arya, H. C., and **Prasada, R.,** Alternaria blight of linseed. Indian Phytopath. 5. 1952, 33—39, 2 fig.

Athow, K., and **Probst, A. H.,** The inheritance of resistance to frog-eye leaf spot of soybeans. [Cercospora sojina] Phytopathology 42. 1952, 660—662, 1 fig.

Atkins jr., J. G., and **Lewis, W. D.,** Rhizoctonia aerial blight of soybeans in Louisiana. [Rhizoctonia microsclerotia] Phytopathology 42. 1952, 1 (Abstr.).

Barsewisch, E. v., Wieder fleckige Bohnen? Mitt. dtsch. Landw.-Ges., Frankfurt/M., 67. 1952, Beil. »Das Reich der Landfrau« S. 125—126, 5 Abb.

Bockmann, H., Neuere Beobachtungen über die Zusammenhänge zwischen Fruchtfolge und Fußkrankheiten bei Weizen und Erbsen. [Cercosporella, Ophiobolus] Nachr.bl. dtsch. Pfl.schutzd., Braunschweig, 4. 1952, 76—77.

Bonniers, C., Hely, F. H., et **Manil, P.,** Essai d'adaptation à Soja hispida de souches de Rhizobium non spécifiques. Influence de greffes sur la spécificité d'hôte du genre Rhizobium. Bull. Inst. agron., Stat. Rech. Gembloux 20. 1952, 137—140.

Brewer, D., Variation in Ascochyta pisi Lib. Proc. canad. phytopath. Soc. nr. 20. 1952, 14 (Abstr.).

Chamberlain, D. W., A halo-producing strain of Pseudomonas glycinea. [on Glycine max] Phytopathology 42. 1952, 299—300, 1 fig.

Crall, J. M., A toothpick tip method of inoculation. [Macrophomina phaseoli, Diaporthe phaseolovum var. batatatis] Phytopathology 42. 1952, 5—6 (Abstr.).

Cruickshank, I. A. M., Fungous diseases of peas in New Zealand. New Zealand R. Soc. sci. Congr. Rept. 1951. 1952, 52—54.

Cruickshank, I. A. M., Pea wilt: Field identification and varietal resistance. [Fusarium orthoceras var. pisi] N. Zealand J. Agric., Wellington, Febr. 1952, 2 p., 2 fig.

De Menezes, O. B., Identificação de 4 raças fisiológicas da ferrugem do feijoeiro (nota preliminar). (Identification of four physiologic races of bean rust (preliminary note).) [Uromyces phaseoli typica (U. appendiculatus)] Dusenia (Brasil) 3. 1952, 309—312.

Di Caro, S., (Mold [Ascochyta pisi] of peas.) Inform. Fitopat., Bologna, 2. 1952, 92—94.

Dimond, A. E., Stoddard, E. M., and **Chapman, R. A.,** Chemotherapeutic investigations on the common bacterial blight of beans. [Xanthomonas phaseoli] Phytopathology 42. 1952, 72—76.

Drechsler, Ch., Bean stem rot in Maryland and Delaware caused by several Pythium species. [Phaseolus vulgaris] Plant Dis. Reptr. 36. 1952, 13.

Ellis, D. E., Ascochyta leaf spot of bean in North Carolina. Plant Dis. Reptr. 36. 1952, 12.

Fisher, H. H., New physiologic races of bean rust (Uromyces phaseoli typica). Plant Dis. Reptr. 36. 1952, 103—105.

Graham, J. H., New wildfire symptoms on soybean. [Pseudomonas tabaci Wolf et Foster] Plant Dis. Reptr. 36. 1952, 22.

Graham, J. H., Preservation of three bacterial pathogens of soybean in culture. Plant Dis. Reptr. 36. 1952, 22—23.

Hildebrand, A. A., Observations on spreas in the soil of Cephalosporium gregatum Allington and Chamberlain, the cause of brown stem rot of soybeans. Plant Dis. Reptr. 36. 1952, 106—107.

Hildebrand, A. A., Stem canker. A disease of increasing importance on soybeans in Ontario. [Diaporthe phaseolorum var. batatatis] Soybean Digest 12. 1952, nr. 9, p. 12—15, 2 fig.

Hildebrand, A. A., Studies on stem canker and pod and stem blight of soybeans in Ontario caused by Diaporthe species. Proc. canad. phytopath. Soc. nr. 20. 1952, 16—17 (Abstr.).

Hildebrand, A. A., and **Koch, L. W.,** Observations on a root and stem rot of soybeans new to Ontario, caused by Phythium ultimum Trow. Sci. Agric., Ottawa, 32. 1952, 574—580, 6 fig. — Proc. canad. phytopath. Soc. nr. 20. 1952, 17 (Abstr.).

Hirata, S., (On the rust fungi of cowpea, Kidney bean and small red bean.) Ann. phytopath. Soc. Japan 16. 1952, 13—18, 3 fig.

Jehle, R. A., Jenkins, A. E., Kreitlow, K. W., and **Sherwin, H. S.,** An outbreak of Phyllosticta canker and leaf spot of soybeans in Maryland. Plant Dis. Reptr. 36. 1952, 155—158, 2 fig.

Kendrick jr., J. B., and **Allard, R. W.,** A root rot tolerant Lima bean. Phytopathology 42. 1952, 515 (Abstr.).

Kerling, L. C. P., Het overgaan met zaad van de amerikaanse vaatziekte van erwten. (Seed transmission of Fusarium wilt of peas.) Tijdschr. Plantenziekten 58. 1952, 236—239.

Kilpatrick, R. A., Fungi associated with soybean seeds within the pods at Stoneville, Mississippi, in 1951. Phytopathology 42. 1952, 285 (Abstr.).

Klinkowski, M., Möglichkeiten der Entseuchung fettfleckenkranken Bohnensaatgutes durch Antibiotika. Mitt. Biol. Zentralanst. H. 74. 1952, 19—22.

Klinkowski, M., und **Köhler, H.,** Möglichkeiten der Entseuchung fettfleckenkranken Bohnensaatgutes durch Antibiotica. Dtsch. Landw. 3. 1952, 198—201.

Labruyere, R. E., (Bean anthracnose.) [Colletotrichum lindemuthianum] Groenten en Fruit 7. 1952, 762.

Lehmann, S. G., Survival of the purple seed stain fungus in soybean seeds. [Cercosporina kikuchii] Phytopathology 42. 1952, 285 (Abstr.).

Luttrell, E. S., and **Garren, K. H.,** Blights of snap bean in Georgia. Phytopathology 42. 1952, 607—613, 1 fig.

Marcus jr., C. P., A new physiologic race of rust (Uromyces phaseoli-typica Arthur) causing losses to beans in Maryland. Phytopathology 42. 1952, 342.

Mastenbroek, C., Bestrijding vetvlekkenziekte in landbouwstambonen. (Control of halo blight of haricot beans.) [Pseudomonas phaseolicola] Meded. »Centraal Bureau« A. G. 36. 1952, 49—50.

Middleton, J. T., Pythium seed decay and seedling blight of Pisum sativum. Phytopathology 42. 1952, 516 (Abstr.).

Miller, H. J., Control of damping-off fungi with halogen substituted nitrobenzenes. Phytopathology 42. 1952, 470.

Miller, H. J., A method of obtaining a high incidence of powdery mildew on snap beans in the greenhouse for fungicide screening tests. Phytopathology 42. 1952, 114 (Abstr.).

Mitchell, J. W., Zaumeyer, W. J., and **Anderson, W. P.,** Translocation of streptomycin in bean plants and its effect on bacterial blights. Science, Lancaster, 115. 1952, 114—115.

Pontis Videla, R. E., Una podredumbre de la caraòta (Phaseolus vulgaris L.) en Venezuela, causada por Pythium aphanidermatum. (Root rot of bean (Phaseolus vulgaris L.) in Venezuela caused by Pythium aphanidermatum.) Agron. trop., Maracay, 2. 1952, 207—209, 1 fig.

Sherwin, H. S., Target spot on soybeans in Virginia. [Corynespora cassiicola] Plant Dis. Reptr. 36. 1952, 491.

Sherwin, H. S., and **Kreitlow, K. W.,** Discoloration of soybean seeds by the frogeye fungus, Cercospora sojina. Phytopathology 42. 1952, 568—572, 1 fig.

Skolko, A. J., and **Groves, J. W.,** Seed-borne fungi of peas. [Ascochyta] Proc. canad. phytopath. Soc. nr. 20. 1952, 23 (Abstr.).

Skoog, H. A., Studies on host-parasite relations of bean varieties resistant and susceptible to Pseudomonas phaseolicola and toxin production by the parasite. Phytopathology 42. 1952, 475.

Sörgel, G., Über die Ursachen der unterschiedlichen Resistenz verschiedener Erbsensorten gegenüber den Fußkrankheitserregern Ascochyta pisi Lib., Ascochyta pinodella Jones und Mycosphaerella pinodes (Berk. et Blox.) Stone. I. Vergleichende Untersuchungen zum Verhalten der Pilze auf einer stark und einer schwach anfälligen Sorte. Züchter 22. 1952, 4—26, 23 Abb.

Stoll, K., Züchterische Möglichkeiten der Verhütung von Fußkrankheiten der Erbse. Dtsch. Landw. 3. 1952, 258—262, 7 Abb.

Thomas, H. R., Jorgensen, H., and **Wester, R. E.,** Resistance to downy mildew in Lima bean, and its inheritance. [Phytophthora phaseoli] Phytopathology 42. 1952, 43—45, 1 fig.

Tochinai, Y., and **Sawada, K.,** (Observations on the overwintering of the bean anthracnose fungus, Colletotrichum lindemuthianum Briosi et Cavara.) Mem. Hokkaido Univ., Fac. Agric., 1. 1952, 103—112, 2 fig.

Tochinai, Y., and **Sawada, K.,** (On the distribution of bean-anthracnose in Hokkaido and specialized races of the causal fungus differing in their pathogenicity.) Hokkaido nat. agric. Exp. Stat. Res. Bull. 63. 1952, 78—83.

Tochinai, Y., and **Sawada, K.,** (Studies on varietal susceptibility of beans to Colletotrichum lindemuthianum Briosi et Cavara. I. Inoculation experiments on seedlings and pods.) Ann. phytopath. Soc. Japan 16. 1952, 117—120, 1 fig.

Vasudeva, R. S., and **Srinivasan, K. V.,** Studies on the wilt disease of lentil (Lens esculenta Moench). [Fusarium] Indian Phytopath. 5. 1952, 23—32.

Vaughan, E. K., and **Dana, B. F.,** Studies on control of white mold of beans. [Sclerotinia sclerotiorum] Phytopathology 42. 1952, 477.

Wallace, G. B., and **Wallace, M. M.,** Pea blight. [Pseudomonas pisi] East afr. agric. J. 17. 1952, 110.

Walters, H. J., and **Starr, G. H.,** Bacterial diseases of beans in Wyoming. Wyoming agric. Exp. Stat. Bull. 319. 1952, 12 p., 7 fig.

Wilson, R. D., Anthracnose of French beans. Austr. Plant Dis. Recorder 3. 1951, 49. — Banana Bull. 15. 1952, nr. 3, p. 3—4.

Yarwood, C. E., Hall, A., and **Nelson, M.,** Nutritive value of rust-infected bean leaves. Phytopathology 42. 1952, 481 (Abstr.).

Zachos, D. G., Un cas d'attaque du pois par le Cylindrosporium pisi Berger. Ann. Inst. phytopath. Benaki 6. 1952, 3 fig.

Unkräuter
Weeds — Mauvaises herbes

Åvall, H., Trials with weed killers in canning peas. Alnarps Lantbr.-, Mejeri-, Trädgårdsinst., Stat. Trädgårdsförsök, Meddel. 74. 1952, 14 p.

Bender, E. K., and **Stark, F. C.,** Weed control experiments with spinach and canning peas. Canning Trade, Baltimore, 74. 1952, 7—8.

Boyce, J. H., One year's experience with pre-emergence treatments with CMU and other herbicides in the control of weeds in corn and soybeans. Proc. canad. nat. Weed Comm., East. Sect., 5 (1951). 1952, 32—33.

Buchholtz, K. P., Control of weeds in canning peas with MCP. Proc. north centr. Weed Control Conf. 9. 1952, 75—76.

Carstens, M. W., Selective sprays for weed control in pea fields. West. Canner, Packer 44. 1952, nr. 3, p. 53—54, 56, 58—59.

Carstens, M. W., Weed sprays help pea industry in Pacific Northwest. Down to Earth, Midland (Michigan), 8. 1952, nr. 3, p. 4—6.

Eggink, H. J., (Chemical weed control in peas.) Maandbl. Landbouwvoorl.dienst, 's-Gravenhage, 9. 1952, 83—86.

Hunt, J. L., Weed control in peas. Farmer and Stock-Breeder, London, 66. 1952, nr. 3265, p. 44—45.

L'Arrivée, J. C. M., Chemical weed control in peas. Proc. north centr. Weed Control Conf. 9. 1952, 68—69.

Leefe, J. S., Chemical control of weeds in peas. Sci. Agric., Ottawa, 32. 1952, 581—585, 5 fig.

McRostie, G. P., Weed control in soybeans by tillage and cropping practices. Proc. canad. nat. Weed Comm., East. Sect., 5 (1951). 1952, 102—107.

Riepma, P., (Once more: chemical control of weeds in peas.) Maandbl. Landbouwvoorl.dienst, 's-Gravenhage, 9. 1952, 153—154.

Sweet, R. D., Chemical weed control in beans. Farm Res. (New York State Stat.) 18. 1952, nr. 3, p. 13.

Willard, C. J., Ohio experiments on the chemical control of weeds. Soybean Digest 12. 1952, nr. 6, p. 12—13.

Zimmerman, C., Menace to soybeans. [weeds] Capper's Farmer (Kansas) 63. 1952, nr. 6, p. 36.

Tierische Feinde
Animal parasites — Parasites animaux

Ankersmit, G. W., Life history and control of the soya bean leaf beetle Phaedonia inclusa (Stål) (Coleoptera, Chrysomelidae). Pemb. Balai Besar Penj. Pert. (Contrib. gen. agric. Res. Stat.), Bogor, nr. 129. 1952, 34 p., 5 fig.

Ankersmit, G. W., Local differences in foodplants of Phaedonia inclusa (Stål), »the soybean beetle« (Col., Chrysomelidae). Trans. IXth int. Congr. Ent., Amsterdam, 1 (1951). 1952, 800—804, 3 fig.

Barker, J. S., Fecundity and total nitrogen and lipid contents of the green pea aphid (Macrosiphum pisi [Kalt.]) as affected by nutritional changes in the garden pea (Pisum sativum L.). Iowa State Coll. J. Sci. 26. 1952, 162—164.

Bollow, Der Speisebohnenkäfer (Acanthoscelides obsoletus (Say) nun auch als Freilandschädling in Bayern. Pflanzenschutz, München, 4. 1952, 24—26, 2 Abb.

Brindley, T. A., and **Chamberlin, J. C.,** The pea weevil. [Bruchus pisorum] US Dept. Agric. Yearb. Agric. 1952, 530—537, 1 fig.

Brindley, T. A., Chamberlin, J. C., and **Schopp, R.,** The pea weevil [Bruchus pisorum] and methods for its control. US Dept. Agric. Farmers' Bull. 1971 (rev.). 1952, 24 p.

Ditman, L. P., Insecticides for mexican bean beetle (Epilachna varivestis) control. Canning Trade, Baltimore, 74. 1952, nr. 46, p. 8, 23.

Dudley jr., J. E., and **Bronson, T. E.,** The pea aphid [Macrosiphum pisi] on peas and methods for its control. US Dept. Agric. Farmer's Bull. 1945. 1952, 13 p.

Dunn, J. A., The effect of temperature on the pea aphid — ladybird relationship. Ann. Rept. nat. Veg. Res. Stat. Wellesbourne 1951. 1952, 21—23.

Enjoji, S., (Application of organic phosphorous insecticides for controlling garden pea leaf miner.) J. Plant Prot., Tokyo, 36. 1952, 276.

Flemion, F., Miller, L. P., and **Weed, R. M.,** An estimate of the quantity of oral secretion deposited by Lygus when feeding on bean tissue. [Lygus oblineatus] Contrib. Boyce Thompson Inst. 16. 1952, 429—433, 1 fig.

Furutani, Y., and **Kukii, M.,** (On the fruiting habits of soybeans. VI. Influence of the damage caused by Nezara antenata Scott at different stages of pod development on the fruiting habits of soybeans.) Kyushu Noji Shikenjo 10. 1952, 167—168.

Furutani, Y., and **Kukii, M.,** (On the injury of soybean caused by Melanagromyza sp. I. Observations on the injury by this pest.) Kyushu Noji Shikenjo 9. 1952, 27—28.

Gough, H. C., Good seed beds keep pea weevil [Bruchus pisorum] control. Grower, [London], 37. 1952, 439, 441 (Abstr.).

Hase, A., Die Einbürgerung des Speisebohnenkäfers als Freilandschädling in Deutschland. [Acanthoscelides obtectus] Trans. IXth int. Congr. Ent., Amsterdam, 1 (1951). 1952, 666—668.

Howe, W. L., Schroeder, W. T., and **Swenson, K. G.,** Seed treatment for control of seed-corn maggot and seed decay organims. [Hylemyia cilicrura] New York State agric. Exp. Stat. Bull. 752. 1952, 34.

Ichinohe, M., On the soybean nematode, Heterodera glycines n. sp., from Japan. Oyo Dobuts. Zasshi, Tokyo, 17. 1952, 1—4.

Javanić, M., (Let's destroy the pea and bean weevil.) Vojvodanski Poljoprivrednik (Jugoslavija) 8. 1952, nr. 13, p. 20—21.

Jenkins, L., and **Burk, V. F.,** Bean beetle control. [Cerotoma trifurcata, Epilachna varivestis] Missouri agric. Coll. Ext. Folder 18. 1952, 4 p.

Knowlton, G. F., and **Lieberman, F. V.,** Controlling pea aphid [Macrosiphum pisi] on alfalfa in Utah. Utah State agric. Coll. Ext. Circ. 153. 1952, 2 p.

Kourmoussis, A. G., Rapport sur les travaux de lutte contre le Sitona limosus Rossi, ennemi des légumineuses dans la Morée. Ann. Inst. phytopath. Benaki 6. 1952, 23—31.

Middlekauff, W. W., Insects on baby lima beans. Calif. Agric., Berkeley, 6. 1952, nr. 4, p. 7, 14.

Middlekauff, W. W., and **Stevenson, E. E.,** Insect injury to blackeye bean seeds in Central California. J. econ. Ent. 45. 1952, 940—946, 3 fig.

Miles, M., Bean flies like an early spring. [Hylemya cilicrura] Grower, [London], 37. 1952, 737—740.

Mochizuki, M., (On the study of Onychiurus yagii Miyoshii as a soybean pest.) Sci. Bull. Fac. Agric. Kyushu Univ. 13. 1952, 67—72.

Müller, K. R., Der Erbsenwickler. [Grapholitha nigricana] Pfl.schutzamt Sachsen-Anhalt Merkbl. Nr. 75. 1952; 4 S., 4 Abb.

Musaka, K., and **Ichinohe, M.,** (A study on the nematode disease index to soybean varieties using relative index system.) Hokkaido nat. agric. Exp. Stat. Res. Bull. 63. 1952, 117—120.

Oteifa, B. A., Effect of potassium nutrition and amount of inoculum on rate of reproduction of the root-knot nematode Meloidogyne incognita. [on Lima beans] Phytopathology 42. 1952, 15—16 (Abstr.).

Oteifa, B. A., Influence of potassium nutrition of the host on the reaction of Lima bean plants to infection by a root-knot nematode, Meloidogyné incognita. Phytopathology 42. 1952, 343.

Peterson, A. G., and **Holdaway, F. G.,** Insects cut legume seed production. Minnesota Farm, Home Sci. (Minnesota Stat.) 9. 1952, nr. 3, p. 4, 12.

Shapiro, I. D., (Increasing yields of peas by protecting them from injuries by legume root weevils (Sitona spp.).) Sowjetsk. Agron., Moskwa, 10. 1952, nr. 4, p. 44—48.

Stanley, W. W., Tests with systox on cotton and snap beans. [for control of thrips] Proc. Assoc. south. agric. Workers 49. 1952, 82—83.

Starnes, O., and **Filmer, R. S.,** Treat bean and corn seeds to prevent injury by soil-inhabiting pests. New Jersey agric. Coll. Ext. Leafl. nr. 78. 1952, 4 p.

Tamura, I., (Some scarabaeid beetles attacking soybean and grape.) J. Plant Prot., Tokyo, 37/38. 1952, 329—331.

Ueki, K., (The control of azuki bean weevil (Callosobruchus chinensis L.) by benzene hexachloride.) Botyu Kagaku (Sci. Insect Control) 17. 1952, 103—106.

Van Dinther, J. B. M., De voornaamste schadelijke insecten in de bonencultuur. Groenten en Fruit 1952, 765.

Walton, R. R. and **Stiles, C. F.,** The control of caterpillars attacking soybeans. Oklahoma agric. Exp. Stat. Mimeogr. Circ. M—239. 1952, 2 p.

Wedding, R. T., and **Metcalf, R. L.,** Translocation of radioactive octamethyl pyrophosphoramide in Black Valentine bean plants. [OMPA] Bot. Gaz., Chicago, 114. 1952, 180—189.

Wheatley, G. A., Investigations on insecticidal dusts. [DDT dusts to control Acyrthosiphon pisi] Nat. Veg. Res. Stat. Ann. Rept. 1950. 1951, 27—34.

Virus

Afanasiev, M. M., and **Morris, H. E.,** Bean virus 2 (yellow) on Great Northern bean in Montana. Phytopathology 42. 1952, 101—104.

Cheo, P.-Ch., and **Zaumeyer, W. J.,** A new strain of tobacco ringspot virus isolated from bean. Plant Dis. Reptr. 36. 1952, 459—465, 1 fig.

Conroy, R. J., and **Wilson, R. D.,** Mottle leaf of tweed wonder beans. J. austr. Inst. agric. Sci. 18. 1952, 33—38, 2 fig.

Dudley jr., J. E., and **Cook, W. C.,** The pea aphid. US Dept. Agric. Yearb. Agric. 1952, 538—543.

Frandsen, N. O., Untersuchungen zur Virusresistenzzüchtung bei Phaseolus vulgaris L. I. Phytopathologische Untersuchungen. Ztschr. Pfl.züchtg. 31. 1952, 381—420, 26 Abb.

Hagedorn, D. J., Cross-protection tests with viruses affecting canning peas in Wisconsin. Phytopathology 42. 1952, 10 (Abstr.).

Johnson, J. C., Common bean mosaic. Austr. Plant Dis. Recorder 4. 1952, 46.

Johnson, J. C., Common bean mosaic yield trial, 1952. Queensland agric. J. 75. 1952, 350—352, 2 fig.

Judenko, E., Johnson, C. G., and **Taylor, L. R.,** The effect of Aphis fabae Scop. on the growth and yield of field beans in a garden plot. Plant Path., London, 1. 1952, 60—63, 2 fig.

Quantz, L., Untersuchungen über das Erbsenvirus 1 (»Enation«-Mosaik-Virus). I. Seine Wirtspflanzen, Ausbreitung und Überwinterung. Nachr.bl. dtsch. Pfl.schutzd., Braunschweig, 4. 1952, 24—27, 4 Abb.

Taubitz, A., Verminderung der Virusschäden an Busch- und Stangenbohnen. Saatgut-Wirtschaft 4. 1952, 158—159.

Van der Want, J. P. H., Virusziekten bij snij- en slabonen. Tuinbouwgids, Den Haag, 1952, 341—342.

Wilson, R. D., Bean mosaic. Austr. Plant Dis. Recorder 4. 1952, 7.

Yarwood, C. E., Latent period and generation time for two plant viruses. [tobacco mosaic virus and tobacco necrosis virus on bean] Amer. J. Bot. 39. 1952, 613—618, 2 fig.

Zaumeyer, W. J., Another strain of alfalfa mosaic virus systemically infectious on beans. Phytopathology 42. 1952, 344.

Zaumeyer, W. J., A new necrotic-lesion-producing strain of yellow bean mosaic. Phytopathology 42. 1952, 24 (Abstr.).

Lathyrus, Lupinus, Medicago, Onobrychis, Ornithopus, Trifolium, Vicia et al.

Allgemeiner Teil
General part — Partie générale

Armstrong, J. M., Self-sterility studies in alfalfa. Sci. Agric., Ottawa, 32. 1952, 153—162, 1 fig.

Bockmann, Beachtet die Kleesicherheit! Nicht Auswinterung, sondern Krankheit. Bauernbl. Schlesw.-Holst. 6./102. 1952, 450—451, 2 Abb.

Caputa, J., Essais de semences de trèfle violet de diverses provenances en 1950—1952. Rev. rom. Agric., Vitic., Arboric. 8. 1952, 85—87, 2 fig.

Childers, W. R., Male sterility in Medicago sativa L. Sci. Agric., Ottawa, 32. 1952, 351—364, 7 fig.

Decker, Phares, Wallace, A. T., and Webb, T. E., Recent studies on lupines in Florida. Phytopathology 42. 1952, 283 (Abstr.).

Dible, W. T., and Berger, K. C., Boron content of alfalfa as influenced by boron supply. Proc. Soil Sci. Soc. Amer. 16. 1952, 60—62.

Elliott, E. S., Diseases, insects, and other factors in relation to red clover failure in West Virginia. West Virginia agric. Exp. Stat. Bull. 351 T. 1952, 65 p.

Gelein, C., Ziekten en beschadigingen bij winter-Lathyrus. (Diseases and injuries to winter Lathyrus.). Vakbl. Bleomisterij 7. 1952, 244—245.

Gerdemann, J. W., The effect of temperature on the results of seed treatment of small-seeded legumes. Plant Dis. Reptr. 36. 1952, 419.

Grandfield, C. O., and Franklin, W. W., Alfalfa seed production in Kansas. Kansas agric. Exp. Stat. Circ. 290. 1952, 28 p., 17 fig.

Hanson, E. W., Effect of seed treatment on seedling stand of smallseeded legumes in Wisconsin. Phytopathology 42. 1952, 467.

Hoffman, O. L., and Sylwester, E. P., Top killing alfalfa for seed production. Down to Earth, Midland (Michigan), 7. 1952, 14—15.

Jones, L. G., Seed production in the southwestern United States in relation to the insect and diesease problems. Alfalfa Improvem. Conf. Rept. 13. 1952, 42—44.

Kreitlow, K. W., The relative importance of various alfalfa diseases in the eastern United States. Alfalfa Improvem. Conf. Rept. 13. 1952, 32.

Law, A. G., Seed production in the Pacific Northwest in relation to insect and disease problems. Alfalfa Improvem. Conf. Rept. 13. 1952, 45—48.

Lilly, J. H., and Walstrom, R. J., Case of the »disappearing sweetclover«. Iowa Farm Sci. 6. 1952, 160—161, 3 fig.

Littau, V. C., and Black, L. M., Spontaneous tumors in sweet clover. Amer. J. Bot. 39. 1952, 191—194, 7 fig.

McLennan, H. A., The relative importance of alfalfa diseases in eastern Canada. Alfalfa Improvem. Conf. Rept. 13. 1952, 33.

MacVicar, R. M., Braun, E., Gibson, D. R., and Jamieson C. A., Studies in red clover seed production. Sci. Agric., Ottawa, 32. 1952, 67—80.

Rapin, J., et Caputa, J., Prescriptions concernant l'admission, le contrôle et le commerce des semences de trèfle violet (Trifolium pratense). Rev. rom. Agric., Vitic., Arboric. 8. 1952, 59—61, 3 fig.

Rudra, M. N., Toxic principle of Lathyrus sativus. [Selenium] Nature, London, 170. 1952, 124—125.

Thomas, H. L., Duncan, E. R., Kernkamp, M. F., Peterson, A. G., and Schmid, A. R., Clovers for Minnesota. [diseases and insects] Minnesota agric. Exp. Stat. Bull. 415. 1952, 27 p., 11 fig.

Van Roon, E., Spraying experiments with white clover. Versl. Centr. Inst. landbouwkdg. Onderz. 1952, 154—157.

Weimer, J. L., Diseases of cultivated lupine in the Southeast. US Dept. Agric. Farmers' Bull. 2053. 1952, 18 p.

Nichtparasitäre Krankheiten
Diseases not caused by parasites
Maladies non parasitaires

Hanson, A. A., and Hanson, R. G., Abnormal petiole and petiolule development in red clover. J. Heredity 43. 1952, 58—60.

McKenzie, R. E., Heinrichs, D. H., and Anderson, L. J., Hay and crude protein yields, winter hardiness and wilt resistance of alfalfa varieties. Sci. Agric., Ottawa, 32. 1952, 626—633, 1 fig.

Meletti, P., (Histologic reactions in plants of Vicia faba treated with 2, 4-D.). Nuovo Giorn. bot. ital. 58. 1952, 318—336.

Oyama, T., (Cytological studies on the morphological abnormalities and on its healing of leaves in Trifolium repens, induced by X-ray treatment.) Jap. J. Genet. 27. 1952, 33—37.

Spatz, L. R., Frostschäden an Süßlupinen. Hannov. land-, forstw. Ztg. 105. 1952, 1166, 1 Abb.

Wodarz, Frühe Kleesaat widersteht Trockenheit. Bauernbl. Schlesw.-Holst. 6./102. 1952, 290.

Wood, G. M., and Sprague, M. A., Relation of organic food reserves to cold hardiness of Ladino clover. Agron. J., Washington, 44. 1952, 318—325.

Pflanzliche Feinde
Vegetal parasites — Parasites végétaux

Allison, J. L., Sclerotium rolfsii, a destructive pathogen of alfalfa and Ladino clover. Phytopathology 42. 1952, 1 (Abstr.).

Battle, W. R., The effect of advance in generation and age of stand on bacterial wilt reaction of Atlantic alfalfa. [Corynebacterium insidiosum] Agron. J., Washington, 44. 1952, 602—605, 1 fig.

Chilton, J. E., A species of Volutella parasitic on alfalfa. Phytopathology 42. 1952, 5 (Abstr.).

De los A. Meléndez de la Garza, M., Reacción del frijol en México a tres razas de Colletotrichum lindemuthianum. Tierra, México, 7. 1952, 594—596, 640—642.

Donnelly, E. D., Breeding for wilt resistance in alfalfa. [Corynebacterium insidiosum] Agron. J., Washington, 44. 1952, 562—568.

Donnelly, E. D., Screening for wilt resistance in alfalfa. [Corynebacterium insidiosum] Agron. J., Washington, 44. 1952, 386—387.

Erwin, D. C., Pathogenicity of fungi associated with crown rot of alfalfa. [Stagonospora meliloti] Phytopathology 42. 1952, 513—514 (Abstr.).

Freire, J. R. J., (Bacterial wilt of lupine, Lupinus spp., caused by Erwinia lupini n. sp.) Rev. Agron, Porto Alegre, 16. 1952, 129—130.

Gerdemann, J. W., A new root rot of red clover. Phytopathology 42. 1952, 466.

Gerhold, N. R., and Henderson, W. J., Relief from alfalfa in sight. [Phythium debaryanum] Colorado Farm, Home Res. 2. 1952, nr. 6, p. 4—5.

Germ, H., and Schönbrunner, J., Kleeseide [Cuscuta trifolii], Kleeteufel [Orobanche minor] und Unkräuter in Klee- und Luzerneschlägen. Kärntner Bauer (Oesterr.) 102. 1952, 104—107.

Gregory, K. F., Allen, O. N., Riker, A. J., and Peterson, W. H., Antibiotics and antagonistic microorganisms as control agents against damping-off of alfalfa. Phytopathology 42. 1952, 613—622, 8 fig.

Hafiz, A., Basis of resistance in gram to Mycosphaerella blight. [M. rabiei] Phytopathology 42. 1952, 422—424.

Halpin, J. E., Hanson, E. W., and Dickson, J. G., Relative pathogenicity of seven species of Pythium on red clover seedlings. Phytopathology 42. 1952, 10 (Abstr.).

Halpin, J. E., Hanson, E. W., and Dickson, J. G., Studies on the pathogenicity of seven species of Pythium on red clover seedlings. [Trifolium pratense] Phytopathology 42. 1952, 245—249, 4 fig.

Hardison, J. R., A serious rootlet rot of alsike clover. [Trifolium hybridum] Phytopathology 42. 1952, 514 (Abstr.).

Hare, W. W., Reaction of cowpea varieties to Fusarium wilt. Phytopathology 42. 1952, 283 (Abstr.).

Hawn, E. J., and Cormack, M. W., Crown bud rot of alfalfa. [Fusarium] Phytopathology 42. 1952, 510—511.

Hemer, Fehlstellen im Klee. [Sclerotinia trifoliorum] Landw. Wochenbl. Westf., Lippe 109 A. 1952, 643—644.

Hodgson, H. J., and Coe, D. M., Bacterial wilt of alfalfa in Alaska. Plant Dis. Reptr. 36. 1952, 116.

Horn, N. L., A comparative study of two species of Colletotrichum on vetch. Phytopathology 42. 1952, 670—674, 1 fig.

Jones, F. R., Botrytis on flowers of alfalfa, sweet clover and red clover. Plant Dis. Reptr. 36. 1952, 61.

Karel, G., Baklalarda Botrytis leke hastalığı. (Die durch Botrytis hervorgerufene Fleckenkrankheit auf Pferdebohnen.) Bitki Koruma Bült. (Bull. Plant Prot.), Ankara, 1952, nr. 2, p. 16—22, 4 fig.

Kernkamp, M. F., and Hemerick, G. A., Alfalfa seed loss due to Ascochyta imperfecta Pk. (blackstem). Phytopathology 42. 1952, 468.

Kernkamp, M. F., and Hemerick, G. A., A »deep-freeze« method of maintaining virulent inoculum of the alfalfa wilt bacterium, Corynebacterium insidiosum. Phytopathology 42. 1952, 13 (Abstr.).

Lamberts, H., Resistance to mildew in yellow lupins. [Erysiphe polygoni] Euphytica, Wageningen, 1. 1952, 199—200, 1 fig.

Leach, J. G., Red clover failure. [blackpatch] West Virginia agric. Exp. Stat. Bull. 357, Pt. 1. 1952, 8 p., 1 fig.

Luttrell, E. S., and Weimer, J. L., Macrophomina stem canker and ashy stem blight of cowpea. Plant Dis. Reptr. 36. 1952, 194—195, 2 fig.

Mahmud, K. A., and Nema, K. G., Powdery mildew (Oidium) on Melilotus parviflora Desf. Sci. and Cult., Calcutta, 17. 1952, 473.

Matsunaga, M., On the effect of the seed disinfection for brown spot of broad-bean. Kyushu Noji Shikenjo 9. 1952, 19—20.

Nishizawa, T., Fujikawa, T., and **Mizuta, H.,** (Studies on the control of broad-bean wilt.) Kyushu Noji Shikenjo 9. 1952, 17—18.

Otscheretjanyi, W. A., (Magnetic powder, »Triphylite 1040«. [sorting alfalfa and clover seeds to remove dodder] Selektsiia i Semenovodstvo (Select. and Seed Growing), Moskwa, 19. 1952, nr. 8, p. 63—66.

Purss, G. S., and **Bowen, G. D.** A stem rot of cowpeas. Austr. Plant Dis. Recorder 4. 1952, 43.

Ryschkowa, Z. F., (Fusarium wilt of alfalfa.) Dokl. Vsesoiuzn. Akad. Sel'skohoz. Nauk im. V. I. Lenina (Proc. Lenin Acad. agric. Sci.) 17. 1952, nr. 10, p. 13—16.

Slykhuis, J. T., Investigations on sweet clover failure in southwestern Ontario. Sci. Agric., Ottawa, 32. 1952, 1—18, 2 fig., 1 tab.

Tenney, W. R., The nature of seed transmission in blackpatch of red clover. Proc. West Virginia Acad. Sci. 24. 1952, 68—71, 3 fig.

Twerskoj, D. L., and **Zhukowa, K. P.,** (Damping-off of red clover and measures for controlling this phenomenon in Moscow Region.) [Fusarium chiefly] Sowjetsk. Agron., Moskwa, 10. 1952, nr. 10, p. 88—90.

Valder, P. G., Brown spot [Pleiochaeta setosa] of lupins. Austr. Plant Dis. Recorder 4. 1952, 29.

Van Hoeken, J., en **Moerman, P. C.,** De invloed van de schimmel Rhizopus oryzae op de alcaloiden lupinine en sparteine uit de bittere gele lupine (Lupinus luteus). Landbouwkdg. Tijdschr. 11. 1952, 767—769.

Viennot-Bourgin, G., Les quatre Uromyces de Vicia cracca. Ber. schweiz. bot. Ges. 62. 1952, 374—383.

Warmbrunn, K., Starke Ausfälle drohen durch den Kleekrebs. Württ. Wochenbl. Landw. 119. 1952, 896.

Weber, P. V. V., Effectiveness of seed treatment in controlling damping-off in alfalfa. [Colletotrichum trifolii] Phytopathology 42. 1952, 22 (Abstr.).

Weimer, J. L., Lupine anthracnose. [Glomerella cingulata] US Dept. Agric. Circ. 904. 1952, 17 p.

Weimer, J. L., Pythium root and stem rot of lupines. [Sclerotium rolfsii or Sclerotinia sclerotiorum] Plant Dis. Reptr. 36. 1952, 279—282, 2 fig.

Zachos, D. G., Un cas de parasitisme des graines du pois-chiche (Cicer arietinum L.) par le Stemphylium botryosum Wallr. Ann. Inst. phytopath. Benaki 6. 1952, 60—61, 1 tab.

Klöversnärjan. [Cuscuta trifolii] Stat. Växtskyddsanst., Stockholm, Flygbl. nr. 97. 1952, 4 p., 1 fig.

Unkräuter
Weeds — Mauvaises herbes

Aldrich, R. J., and **Baylor, J. E.,** Dinitro for chichweed control in alfalfa. Down to Earth, Midland (Michigan), 8. 1952, nr. 3, p. 10—11.

Dubus, M., Notes on weed control in France, with special reference to the treatment of young lucerne. Plant Prot. Overseas Rev., London, 3. 1952, 24—25.

Mueggler, W. F., Effects of several chemicals on tall larkspur (Delphinium) and associated tailcup lupine. US Forest Serv. Intermountain Forest, Range Exp. Stat. (Utah) Res. Note 4. 1952, 3 p.

Tierische Feinde
Animal parasites — Parasites animaux

Anderson, L. D., et al., Lygus bugs on seed alfalfa, specific treatments recommended for Lygus growth. Calif. Agric. (Calif. Stat.) 6. 1952, nr. 11, p. 3—4.

Andrianowa, N. S., (New pest of alfalfa in Kazakhstan — Psylla medicaginis, sp. nova (Homoptera, Psyllodea).) Zool. Žh. (Zool. J.) 31. 1952, 270—271.

Bingefors, S., Nematode resistance in clover and lucerne. Int. Grassland Conf. Abstr. Pap. 6. 1952, nr. 2, p. 3—4.

Bird, R. D., The biology, ecology, and control of the sweet clover weevil, Sitona cylindricollis Fahr., in Manitoba. Proc. amer. Assoc. econ. Entomologists, North Centr. States Br., 7. 1952, 31.

Bonnemaison, L., Les parasites animaux de la féverole. Agriculture, Paris, 16. 1952, 271—273.

Chauvin, R., Études d'écologie entomologique sur le champ de luzerne. I. Méthodes — Sondages préliminaires. Ann. Épiphyties, Paris, 3. 1952, 61—81, 6 fig.

Coutin, R., La cécidomyie des fleurs de luzerne. Défense agric. Beauce, Perche 49. 1952, 51—52.

Dahm, P. A., Effects of weathering and commercial dehydration upon residues of aldrin, chlordane, and toxaphene applied to alfalfa. J. econ. Ent. 45. 1952, 763—766.

Dumbleton, L. J., Coleophoridae (Lep.) as pests of clovers. New Zealand J. Sci., Technol. (A) 33. 1952, nr. 5, p. 109—112, 2 fig.

Eden, W. G., and **Blake, G. H.,** Control of vetch bruchid (Bruchus brachialis) in Alabama. Proc. Assoc. south. agric. Workers 49. 1952, 83.

Franklin, W. M., Insect control in alfalfa seed fields. Kansas agric. Exp. Stat. Circ. nr. 289. 1952, 21—24.

Gelin, O., (Investigation on the occurrence of nematodes in clover seed.) Weibulls illustr. Årsb., Landskrona, 47. 1952, 20—21.

Gyrisco, G. G., Hopkins, L., Muka, A. A., and **Marshall, D. S.,** Concentration of several insecticides for control of meadow spittlebug on red clover. J. econ. Ent. 45. 1952, 615—619.

Hanson, C. H., Rowan lespedeza has root knot nematode resistance. South. Seedsman (Texas) 15. 1952, 26, 66.

Hanson, C. H., Allison, J. L., and **Chamblee, D. S.,** The performance of Lespedeza strains on rootknot nematode infested soils in North Carolina. Proc. Assoc. south. agric. Workers 49. 1952, 176—177 (Abstr.).

Hastings, E., and **Pepper, J. H.,** Early spray applications to control alfalfa weevil. J. econ. Ent. 45. 1952, 707—711.

Herron, J. C., Control of sweet clover weevil in Ohio. J. econ. Ent. 45. 1952, 316—319.

Holdaway, F. G., and **Peterson, A. G.,** Lygus populations in alfalfa, 1951. Proc. amer. Assoc. econ. Entomologists, North Centr. States Br., 7. 1952, 33—36.

Holdworth, R. P., Insect control in clover and alfalfa. Seed World 70. 1952, nr. 11, p. 84, 86.

Hopkins, L., and **Gyrisco, G. G.,** Tests on pea aphid control in alfalfa and residues from various formulations at harvest. J. econ. Ent. 45. 1952, 821—825.

Ishii, S., Studies on the host preference of the cowpea weevil (Callosobruchus chinensis L.). Bull. Nat. Inst. agr. Sci., ser. C (Plant Path., Ent.), Nishigahara, 1952, nr. 1, p. 185—256, 8 fig.

Kiryu, T., and **Yamamoto, S.,** (On the varietal difference to chocolate spot disease [Botrytis fabae] of broad bean.) Kyushu Noji Shikenjo 10. 1952, 135—136.

Klostermeyer jr., E. C., Insect control and pollination recommendations for alfalfa and clover seed. Washington State Coll. Ext. Mimeogr. 581 (rev.). 1952, 8 p.

Knowlton, G. F., and **Lieberman, F. V.,** Controlling pea aphid [Macrosiphum pisi] on alfalfa in Utah. Utah State agric. Coll. Ext. Circ. 153. 1952, 2 p.

Knowlton, G. F., and **Packer, N. T.,** Insect control and pollination of the alfalfa seed crop in the Delta Tract, Utah. Proc. Utah Acad. Sci., Arts, Let. 29. 1952, 49.

Lieberman, F. V., Knowlton, G. F., Snow, S. J., and **Sorenson, C. J.,** Recommendations for controlling alfalfa insects in Utah. Utha State agric. Coll. Ext. circ. 167. 1952, 8 p.

Margheritis, A. E., Ensayos a campo de productos insecticidas contra la »isoca« de la alfalfa, Colias lesbia (F.). IDIA (Inform. Invest. agríc.), Buenos Aires, 5. 1952, nr. 52, p. 3—4.

Medler, J. T., and **Chamberlin, T. R.,** Sweet clover weevil [Sitona cylindricollis] control in Wisconsin. Proc. amer. Assoc. econ. Entomologists, North Centr. States Br., 7. 1952, 31—32.

Menusan jr., H., The control of spittle bugs (Cercopidae) and other insects on clover and alfalfa. Pennsylv. State Coll. Agric. Ext. Circ. 396. 1952, 8 p.

Moffett, B. W., War being waged on alfalfa snout beetle (Brachyrhinus ligustici). Farm and Garden, Watertown (N.Y.), 10. 1952, 1, 4.

Muka, A. A., Gyrisco, G. G., Hopkins, L., and **Marshall, D. S.,** Further advances in alfalfa snout beetle control. J. econ. Ent. 45. 1952, 298—302.

Murbach, R., Infestation du trèfle violet en Suisse romande par Bruchidius varius Ol. (Col. Bruchid.). Mitt. schweiz. ent. Ges. 25. 1952, 263—264, 3 fig.

Norris, M. J., New insect pest [Walshia amorphellia] attacks biennial sweet clovers in north-central Texas. Crops and Soils, Madison, 4. 1952, nr. 4, p. 27.

Obradović, M., (The influence of moving at different times on the yield and quality of alfalfa when attacked by Phytodecta fornicata Brüg.) Saschtita Bilja (Plant Prot.), Beograd, nr. 9. 1952, 55—61, 2 fig.

Poos, F. W., The potato leafhopper [Empoasca fabae], a pest of alfalfa in the Eastern States. US Dept. Agric. Leafl. 229 (rev.). 1952, 4 p.

Poos, F. W., Relative importance of various insects harmful to alfalfa in eastern Canada, and the United States. Alfalfa Improvem. Conf. Rept. 13. 1952, 34—36.

Portman, R. W., and **Barr, W. F.,** Alfalfa and clover pests in Idaho. Idaho agric. Coll. Ext. Circ. 122. 1952, 8 p.

Russell, E. E., Stink bugs (Pentatomidae) on seed alfalfa in southern Arizona. US Dept. Agric. Circ. 903. 1952, 19 p.

Telford, H. S., New insect attacks sweet clover plants. [Sitona cylindricollis] Washington Farmer 77. 1952, 576.

Weaver, C. R., and **Hibbs, J. W.,** Effect of spittlebug infestation on nutritive value of alfalfa and red clover. J. econ. Ent. 45. 1952, 626—628.

Wilson, M. C., and **Davis, R. L.,** Insect problems that develop on alfalfa following treatment with certain insecticides. Ohio J. Sci. 52. 1952, 343—348.

Wilson, M. C., and **Davis, R. L.,** A preliminary report on insect tolerant alfalfa studies at Purdue University. Proc. indian Acad. Sci. 61. 1952, 141 (Abstr.).

Yates, J., Haplotrips niger Osb., the red clover thrips. New Zealand J. Sci., Technol. (B) 34. 1952, 166—172, 7 fig.

Control of the alfalfa caterpillar. [Colias philodice eurytheme] US Dept. Agric. Leafl. nr. 325. 1952, 5 p., 5 fig.

Virus

Bowden, R. A., Results obtained by seed treatment on the control of X-diseases affecting Lathyrus odoratus L. (greenhouse sweet peas). Proc. Assoc. south. agric. Workers 49. 1952, 106.

Fenne, S. B., Severe virus disease on ladino clover in Virginia. Plant Dis. Reptr. 36. 1952, 491.

Fry, P. R., Occurrence of lucerne-mosaic virus in New Zealand. New Zealand J. Sci., Technol. (A) 34. 1952, 320—326, 7 fig.

Fulton, R. W., Mutation in a tobacco necrosis virus strain. [on Vigna sinensis Endl. var. Blackeye] Phytopathology 42. 1952, 156—158, 1 fig.

Hanson, E. W., and **Hagedorn, D. J.,** Red clover, a reservoir of legume viruses in Wisconsin. Phytopathology 42. 1952, 467.

Kazanskij, A. N., and **Katschanowa, E. R.,** (Dangerous virus disease of alfalfa in Kazakhstan.) Sowjetsk. Agron., Moskwa, 10. 1952, nr. 6, p. 60—67.

Littau, V. C., and **Black, L. M.,** Spontaneous tumors in sweet clover. Amer. J. Bot. 39. 1952, 191—194, 7 fig.

Marcelli, E., Un mosaico del trifoglio ibrido riferibile al mosaico giallo No. 2 des fagiolo. (A mosaic of the hybrid clover attributed to the yellow mosaic virus No. 2 of bean.) Not. Mal. Piante nr. 20. 1952, 26—28.

Menzies, J. D., Methods for reducing the spread of the witch's broom disease in alfalfa. Phytopathology 42. 1952, 649—650.

Porter, C. A., and **McWhorter, F. P.,** Crystalline inclusions produced by red clover vein mosaic virus. Phytopathology 42. 1952, 518 (Abstr.).

Sill jr., W. H., and **Walker, J. C.,** Cowpea as an assay host for cucumber virus 1. [Vigna sinensis] Phytopathology 42. 1952, 328—330.

Sill jr., W. H., and **Walker, J. C.,** A strain of cowpea susceptible to systemic infection by various strains of common cucumber mosaic virus. Phytopathology 42. 1952, 442.

Slykhuis, J. T., Investigations on sweet clover failure in southwestern Ontario. Sci. Agric., Ottawa, 32. 1952, 1—18, 3 fig.

Swenson, K. G., Aphid transmission of a strain of alfalfa mosaic virus. [Aphis gossypii, Macrosiphum pisi, A. medicaginis, A. fabae, Macrosiphum solanifolii, Myzus persicae] Phytopathology 42. 1952, 261—262.

Troll, H.-J., Viren, deren Schäden und genetische Resistenzfragen bei Lupinus luteus. Züchter 22. 1952, 164—175, 12 Abb.

Warid, W. A., and **Plakidas, A. G.,** Thermophilic viruses naturally infectious to cowpea. [Vigna sinensis Endl.] Plant Dis. Reptr. 36. 1952, 380—381.

Zabala, S., El mosaico de la alfalfa. Rev. Bolsa Cereales, Buenos Aires, 38. 1952, nr. 2049, p. 4, 13. — IDIA (Inform. Invest. agríc.), Buenos Aires, 5. 1952, nr. 49, p. 5—7.

c. Gräser
Grasses — Graminées

Allgemeiner Teil
General part — Partie générale

Cornish, G. S., Turf diseases that injure lawns. Horticulture (nat. ed.) 30. 1952, 273.

Dawson, R. B., The winter management of lawns. North. Gardr., Manchester, 6. 1952, 187—188.

Grau, F. V., This is Meyer (Z-52) zoysia. Seed World 70. 1952, nr. 4, p. 14, 16.

Kreitlow, K. W., Induced epiphytotics. Int. Grassland Conf. Abstr. Pap. 6 (A). 1952, 25—26.

Noer, O. J., Toll of turf diseases in '52 accents study, plans for '53. Golfdom 26. 1952, nr. 10, p. 71—72, 74, 76.

Richter, W., Abhängigkeit des Schädlingsbefalls im Grünland vom Kulturzustand der Flächen. Grünland, Berlin, 1. 1952, 57—58.

Sprague, M. A., and **Frans, R. E.,** Pasture renovation with chemicals. Down to Earth, Midland (Michigan), 8. 1952, nr. 3, p. 8.

Sprague, R., and **Fischer, G. W.,** Check list of the diseases of grasses and cereals in the western United States and Alaska. Washington agric. Exp. Stat. Circ. 194. 1952, 188 p.

Stanford, E. H., Transfer of disease resistance to standard varieties. Int. Grassland Conf. Abstr. Pap. 6 (A). 1952, 39—40.

Nichtparasitäre Krankheiten
Diseases not caused by parasites
Maladies non parasitaires

Boyko, H., On regeneration problems of destroyed pasture areas in arid regions. Int. Grassland Conf. Abstr. Pap. 6 (D). 1952, 3—4.

Gisiger, L., Bericht über einen Steinmehldüngungsversuch auf einer Magerwiese. Landw. Jahrb. Schweiz 66. 1952, 701—713.

Hodgson, J. M., The effect of 2, 4-D on four forage grasses. [Alta fescue, Standard crested wheatgrass, Orchard grass, Mancher smooth brome] Proc. Oregon Seed Growers League 11. 1952, 49—50.

Hovd, A., (Overwintering injuries to pastures and possible remedies for them.) Landbrukstidende (Norge) 58. 1952, 188—190.

Hyde, E. O. C., Methods for determining the viability of various seeds by tetrazolium staining. II. Perennial ryegrass. New Zealand J. Sci., Technol. (A) 34. 1952, 195—201, 4 fig.

McKinney, H. H., Specht, A. W., and **Stanton, T. R.,** Certain factors affecting chlorophyll degeneration and pigmentations in oats and other grasses. Plant Dis. Reptr. 36. 1952, 450—458.

Makino, M., (On the control of the fall down of rush.) Kyushu Noji Shikenjo 9. 1952, 53—54.

Pflanzliche Feinde
Vegetal parasites — Parasites végétaux

Boerger, A., Obtención en la Estanzuela de un Lolium multiflorum resistente a Schizozaphis graminum y Puccinia coronata. (A strain of Lolium multiflorum resistant to Schizozaphis graminum and Puccinia coronata developed at La Estanzuela.) Arch. fitotécn. Uruguay, Montevideo, 5. 1952, 155—156.

Boosalis, M. G., The epidemiology of Xanthomonas translucens (J. J. and R.) Dowson on cereals and grasses. Phytopathology 42. 1952, 387—395.

Brockwell, J., Corticium praticola as a pasture pathogen. Austr. Plant Dis. Recorder 4. 1952, 42.

Carter, J. F., and **Dickson, J. G.,** The influence of environment on the development of two foliar diseases of Bromus inermis Leyss. [Pyrenophora bromi, Pseudomonas coronafaciens atropurpurea] Agron. J., Washington, 44. 1952, 119—125.

Corkill, L., Breeding for disease resistance, with particular reference to blind seed disease. Int. Grassland Conf. Abstr. Pap. 6 (A). 1952, 12.

De Urries, M. J., Infektionsversuche an Gräsern mit zwei Rassen von Puccinia graminis tritici in Spanien. Ber. schweiz. bot. Ges. 62. 1952, 363—369.

Du Plessis, S. J., and **Nortjé, J. H.,** Susceptibility of wheat and rye varieties and of grass species to Ophiobolus graminis Sacc. South Afr. Dept. Agric. Sci. Bull. 328. 1952, 19 p.

Fischer, G. W., Tilletia brevifaciens sp. nov., causing dwarf bunt of wheat and certain grasses. Res. Stud. State Coll. Washington 20. 1952, 11—14, 1 fig.

Fischer, G. W., and **Meiners, J. P.,** Comparative value of several fungicides in the control of head and stripe smuts in certain forage grasses. Washington agric. Exp. Stat. Bull. 532. 1952, 18 p., 1 fig.

Graham, J. H., Purple leafspot of orchard grass. [Stagonospora maculata] Phytopathology 42. 1952, 653—656, 1 fig.

Hair, J. B., Blind-seed of ryegrass. III. Effect of fungicides on the disease. New Zealand J. Sci., Technol. (A) 34. 1952, 117—121.

Hardison, J. R., and **Corden, M. E.,** A serious outbreak of dwarf bunt in tall oat grass in Oregon. [Tilletia on Arrhenatherum elatius var. bulbosum (Willd.) Spenner] Plant Dis. Reptr. 36. 1952, 343—344, 2 fig.

Hinke, F., Versuche zur Bekämpfung des Raygrasbrandes. [Ustilago decipiens] Mitt. Biol. Zentralanst. H. 74. 1952, 139—141.

Holton, C. S., Tilletia elymi, an apparently homothallic species. Phytopathology 42. 1952, 635—636, 1 fig.

Klomparens, W., and **Vaughn, J. R.,** The correlation of laboratory-screening of turf fungicides with field results. [Helminthosporium (vagans), Sclerotinia homoeocarpa, Gloeocercospora sorghi, Pellicularia filamentosa] Michigan agric. Exp. Stat. Quart. Bull. 34. 1952, 425—435, 5 fig.

Large, E. C., Surveys for choke (Epichloe typhina) in cocksfoot seed crops, 1951. Plant Path., Harpenden, 1. 1952, 23—28, 2 fig., 1 tab.

Ludbrook, W. V., and **Brockwell, J.,** Control of dollar spot of turf in Canberra, A. C. T. [Sclerotinia homoeocarpa] J. austr. Inst. agric. Sci. 18. 1952, nr. 1, p. 39—40.

Luttrell, E. S., Diseases of brome grasses in Georgia. [Bromus inermis, B. catharticus] Plant Dis. Reptr. 36. 1952, 283—286, 2 fig.

Lyle, J. A., Fence out disease; get fatter profits; recommended varieties, fungicides, seed treatment bar disease from pastures. South. Seedsman (Texas) 15. 1952, nr. 3, p. 38, 42, 46.

Meiners, J. P., Etiology and control of snowmold of turf in eastern Washington. Phytopathology 42. 1952, 516 (Abstr.).

Miller, P. A., Dollar spot control trials. [fungus disease of bentgrass] South. Calif. Turf Cult. 2. 1952, nr. 1, p. 4.

Owen, H., Leaf blotch of cocksfoot. [Rhynchosporium secalis] Plant Path., London, 1. 1952, 122.

Ramakrishnan, T. S., Observations on ergots on Pennisetum and other grasses. Proc. indian Acad. Sci. (Sect. B) 36. 1952, 97—101.

Shaw, D. E., Grass smuts. Austr. Plant Dis. Recorder 4. 1952, 4—5.

Shaw, D. E., Ropy smut of Liverpool plains grass. [Tolyposporium restifaciens on Stipa aristiglumis] Proc. Linnean Soc. New South Wales 77. 1952, 142—145, 1 fig., 1 tab.

Smith, J. D., Fungi and turf diseases. J. Sports Turf Res. Inst. 8. 1951, 60—66; 1952, 144—149, 6 fig.

Smith, J. D., A patch disease of sports turf caused by Ophiobolus graminis var. avenae E. M. Turner. J. Sports Turf Res. Inst. 8. 1952, 140—143, 2 tab.

Sterten, A. K., Melding om undersøkelser over engvekstenes overvintring. I. Undersøkelsene i tiden fra 1949 til våren 1951. [Sclerotinia, Typhula] Forskn., Fors. Landbr. (Res. norw. Agric.), Oslo, 3. 1952, nr. 1, p. 31—47, 4 fig.

Theis, T., An undescribed species of ergot on Panicum maximum Jacq. var. common guinea. Mycologia, Lancaster, 44. 1952, 789—794, 1 fig.

Thirumalachar, M. J., and Narasimhan, M. J., A new Sclerospora on Dichanthium annulatum. [S. dichanthicola] Phytopathology 42. 1952, 596—598, 1 fig.

Vanterpool, T. C., The phenomenal decline of browning root rot (Pythium spp.) on the Canadian prairies. Sci. Agric., Ottawa, 32. 1952, 443—452, 1 fig.

Vaughn, J. R., Snow molds: their prevention and cure. Golf Course Rptr. 20. 1952, nr. 6, p. 11.

Vaughn, J. R., and Klomparens, W., Comparison of cycloheximide (actidione) with ten other fungicides for the control of turf diseases. Phytopathology 42. 1952, 22 (Abstr.).

Western, J. H., Diseases of economic importance in forage seed production. Int. Grassland Conf. Abstr. Pap. 6 (F). 1952, 38—39.

Wilson, C. G., and Grau, F. V., 1951 national co-operative turf fungicide trials. Golf Course Reptr. 20. 1952, nr. 2, p. 8—13.

Zacha, V., Příspěvek k mykopathologii našich travin. (A contribution to the mycopathology of our grasses.) Sborník českosl. Akad. Zeměd. (Řada B) (Ann. Acad. tchécosl. Agric.), Praha, 25. 1952, nr. 1, p. 49—60, 17 fig.

New turf fungicide out. Agric. Chem., Baltimore, 7. 1952, 73.

Plant diseases. Two diseases of turf. Bitter pit of pome fruits. [Rhizoctonia, Curvularia et Sclerotinia] Agric. Gaz. New South Wales 63. 1952, 200—203, 5 fig.

Unkräuter
Weeds — Mauvaises herbes

Åberg, E., (Hormone derivatives against bush vegetation in natural grassland.) Växtodling, Uppsala, 7. 1952, 71—78.

Allen, H., When a new ley is impossible. Farmers' Weekly, London, 36. 1952, nr. 26, p. 75, 77.

Allred, B. W., Influence of shrub invasion on United States range lands. Int. Grassland Conf. 6 (C). 1952, 1.

Buchholtz, K. P., Weed control in pastures and hay-fields of the eastern US. Int. Grassland Conf. 6 (B). 1952, 8.

Cesaroni, F., (Herbicides in the improvement of pastures.) Monti e Boschi, Firenze, 3. 1952, 350—352.

Cornish, G. S., Controlling the weeds in your lawn. Horticulture (nat. ed.) 30. 1952, 350, 362.

Davis, R. R., and Willard, C. J., Both cultural and chemical practices needed to prevent crabgrass in lawns. Ohio Farm, Home Res. 37. 1952, nr. 274, p. 5—7.

Dawson, R. B., Weed control in turf with special reference to selective weed killers. J. Inst. Corn, agric. Merch., London, 3. 1952, 164—165.

DeFrance, J. A., and Simmons, J. A., Comparison of various chemicals for crabgrass control in turf. Proc. amer. Soc. hortic. Sci. 59. 1952, 479—484.

DeFrance, J. A., and Simmons, J. A., Weed free turf seedbeds. Research (Rhode Island Stat.) 2. 1952, 44—45.

Elwell, H. M., Brush control of hardwoods for grass production. Proc. north centr. Weed Control Conf. 9. 1952, 53—56.

Engel, R. E., and Ahlgren, G. H., Weed-free lawns. Plants and Gard., New York, 8. 1952, 42—45.

Freed, V. H., Bayer, D. E., and Furtick, W. R., Control of weedy annual grasses in perennial grasses grown for seed; a progress report. Oregon agric. Exp. Stat. Circ. Inform. 514. 1952, 6 p.

Gallagher, J. E., Methyl bromide fumigation for turf weed control. South. Calif. Turf Cult. 2. 1952, nr. 1, p. 1—3.

Greenfield, I., The moss problem mastered. Gard.' Chron., London, 132. 1952, 232, 1 fig.

Grigsby, B. H., Turf. North centr. Weed Control Conf. Res. Rept. 9. 1952, 142—143.

Hanf, M., Bekämpfung von Ginster (Sarothamnus scoparius) auf Weiden mit wuchsstoffhaltigen Unkrautbekämpfungsmitteln. Nachr.bl. dtsch. Pfl.-schutzd., Braunschweig, 4. 1952, 55—59, 2 Abb.

Harris, V. C., Chemical weed control in permanent pastures. Mississippi agric. Exp. Stat. Inform. Sheet 469. 1952, 2 p.

Harris, V. C., Pasture weeds controlled by 2, 4-D in tests. Mississippi Farm Res. 15. 1952, nr. 4, p. 1, 7.

Hill, R. P., Control of weeds in grass seed crops by hormone sprays. New Zealand J. Agric. 84. 1952, 192.

Holly, K., Woodford, E. K., and Blackman, G. E., The control of some perennial weeds in permanent grassland by selective herbicides. Agriculture, J. Minist. Agric., London, 59. 1952, 19—23.

Imhof, Unkrautbekämpfung auf dem Grünland. Landw. Wochenbl. München 142. 1952, 481, 1 Abb.

Klingman, D. L., Weeds in pastures. North centr. Weed Control Conf. Res. Rept. 9. 1952, 116—118.

Knowles, G., Observations on the control of perennial weeds in pastures. Proc. canad. nat. Weed Comm., East. Sect., 5 (1951). 1952, 116.

Krüger, Unkrautbekämpfung auch auf dem Grünlande? Hannov. land-, forstw. Ztg. 105. 1952, 399.

Leefe, J. S., Renovation of rough pastures by the use of commercial fertilizer and herbicides. Proc. canad. nat. Weed Comm., East. Sect., 5 (1951). 1952, 113—115.

Montenegro, H. W. S., and **Krug, H. P.,** (Control the chief pest of our pastures: Tabernaemontana.) Rev. Soc. rur. brasil., São Paulo, 32. 1952, nr. 379, p. 66—67.

Morozova, O. I., (Control of the poisonous plant of Karakul sheep desert pastures [Ceratocephalus falcatus].) Karakulevodstvo i Zverovodstvo (USSR) 5. 1952, nr. 5, p. 32—34.

Nutter, G. C., and **Cornman, J. F.,** Endothal for clover control. Golf Course Reptr. (formerly Greenk. Reptr.) 20. 1952, nr. 5, p. 10—12.

Nylund, R. E., Control of crabgrass in lawns. Minnesota Horticulturist 80. 1952, 89, 95.

Oyer, E. B., Daniels, W. H., and **Lee, O. C.,** Crabgrass control in lawns. Indiana agric. Exp. Stat. Mimeogr. BP-51. 1952, 2 p.

Peek jr., N. S., and **Hinkle, D. A.,** Control of crabgrass and wild onions in a Bermuda grass turf. Proc. south. Weed Conf. 5. 1952, 186—189.

Plant, W., The control of horsetail in pastures with MCPA. Agriculture, J. Minist. Agric., London, 59. 1952, 86—88.

Primost, E., Unkrautbekämpfung mit Dicopur auf Grünland. Bauer 5. 1952, Nr. 5, S. 5—6.

Raymond, L. C., Control of weeds and woody growth in pastures. Proc. canad. nat. Weed Comm., East. Sect., 5 (1951). 1952, 112.

Reyntens, H., Onderzoek betreffende de weerstand tegen overstroming van verschillende gras- en klaversoorten en waarde der grasflora in Dender-, Schelde- en Durmevallei. Meded. Landb. hoogesch., Opzoek.stat. Gent 14. 1949, 251—262.

Richter, W., Bekämpfung von Grünlandunkräutern mit chemischen Mitteln. Landw.bl. Weser-Ems 99. 1952, 1231—1232.

Richter, W., Erfahrungen mit wuchsstoffhaltigen Mitteln bei Unkrautbekämpfungsversuchen auf Weiden. Grünland, Berlin, 1. 1952, 83—85.

Richter, W., Unkrautbekämpfung im Grünland. In: Unkraut-Bekämpfung (Verlag Kommentator, GmbH., Frankfurt/M. 1952), S. 23—27, 2 Abb.

Rummell, R. S., Eliminate cheatgrass [Bromus tectorum] before reseeding [Agropyron cristatum]. Oregon Farmer, Portland, 75. 1952, 636.

Schepp, W., Was können wir gegen die Grünland-Unkräuter tun? Landw.bl. Weser-Ems 99. 1952, 1229—1231.

Schistra, K., Grassland weed control with growth substances. Gelders Landbouwbl. (Nederland) 15. 1952, nr. 10, p. 4.

Schudel, H. L., and **Rampton, H. H.,** Home lawns for Oregon. [weeds] Oregon agric. Exp. Stat. Bull. 516. [1952], 45 p., 24 fig.

Shiller, H. O. B., Weeds in the goat pasture. Dairy Goat J., Columbia (Missouri), 30. 1952, nr. 4, p. 4—5.

Stryckers, J., Chemical weed control in permanent pastures. Int. Grassland Conf. 6 (B). 1952, 29—30.

Stryckers, J., (Improvement of the sward of permanent pastures. III. The influence of the carrier and of manuring on the action of synthetic growth substances as selective herbicides.) Meded. Landb.hoogesch., Opzoek.stat. Gent 17. 1952, 28—50.

Sylwester, E. P., How to keep weeds out of your pasture. Capper's Farmer (Kansas) 63. 1952, nr. 5, p. 22—23, 88—89.

Templeman, W. G., Control of grassland weeds with 2-methyl-4-chlorophenoxyacetic acid (MCPA or MCP) in Great Britain. Int. Grassland Conf. 6 (B). 1952, 31.

Tereschtschenko, F. K., (Combating the stalkless thistle [Cirsium] in hay mowing and on pastures.) Kormovaîa Baza (USSR) 3. 1952, nr. 5, p. 21—23.

Thompson, W. R., Swat those pasture weeds. Progr. Farmer (Mississippi-Arkansas-Louisiana Ed.) 67. 1952, nr. 7, p. 18, 83.

Tidman, D. A., Weed control in pasture. Milk Ind., London, 32. 1952, nr. 11, p. 87—88, 90.

Tomaselli, R., (Second series of experiments for the control of Ranunculus infesting the meadows of Pavia.) Melhoramento 5. 1952, 85—93.

Tschumi, E., Düngung und Unkrautbekämpfung auf Alpweiden. Schweiz. landw. Ztschr. »Grüne« 80. 1952, 1358—1359.

Van Rensburg, H. J., Encroachment and control of shrubs in Africa in relation to grassland development. Int. Grassland Conf. 6 (C). 1952, 25—26.

Warden, R. L., Montana's annual grass weeds. Montana State Coll. Farmer 5. 1952, nr. 3, p. 10, 24, 26.

Watson jr., J. R., Chemical control of crabgrass in special purpose turf. Proc. south. Weed Conf., Atlanta (Georgia), 5. 1952, 179—181.

Watson jr., J. R., and **Cook, E. D.,** Chemical control of crabgrass [Digitaria] in special purpose turf. Texas agric. Exp. Stat. Progr. Rept. 1450. 1952, 3 p.

Woestemeyer, V., What's in the new aerial spraying law. Kansas State Board Agric. Rept. 81. 1952, nr. 308, p. 78—81.

Wood, H. E., Weed stocktaking on the prairies. [includes control methods] Manitoba Co-operator (Canada) 9. 1952, nr. 42, p. 6—7.

Zimmermann, F., Unkrautbekämpfung im Parkrasen. Zentralbl. dtsch. Erwerbsgartenbau 4. 1952, Nr. 6, S. 1—2.

Tierische Feinde
Animal parasites — Parasites animaux

Adams, J. A., Lawn grubs should be the least of your worries. Home Garden 20. 1952, nr. 2, p. 73—75.

Ahmed, D. D., Life history and control of the meadow spittlebug Philaenus leucophthalmus (Linn.) (Homoptera, Cercopidae). Ohio State Univ. Abstr. Doct. Diss. 62. 1952, 3—9.

Bishopp, F. C., Insecticide residue problems in grassland agriculture. Int. Grassland Conf. Abstr. Pap. 6 (B). 1952, 6; 6 (I). 1952, 5.

Blümke, Schafhaltung bedeutet Schädlingsbekämpfung. Saarländ. Bauernbl. 6. 1952, 254; 7. 1953, 30.

Boness, M., Die Fauna der Wiesen unter besonderer Berücksichtigung der Mahd. Diss. Kiel 1952.

Borg, Å., Harkrankshärjningarna 1952. [Tipula paludosa] Växtskyddssnotiser, Stockholm, 16. 1952, 85—92, 3 fig.

Burrage, R. H., and **Gyrisco, G. G.,** Control of the European chafer in pasture sod. J. econ. Ent. 45. 1952, 313—315.

Cornish, G. S., Insect pests that injure lawns. Horticulture (nat. ed.) 30. 1952, 310, 322.

Crawford, A., Control of grub and caterpillar in Canterbury sheep pastures. New Zealand Farmer 73. 1952, nr. 16, p. 3—4.

Everly, R. T., Tests of new insecticides for control of the meadow spittlebug. [Philaenus leucophthalmus] Proc. indian Acad. Sci. 61 (1951). 1952, 140.

Gersdorf, Hoplia philanthus Sulz. (Col. Scar. Mel.) als Wiesenschädling. Anz. Schädl.kunde 25. 1952, 56—57.

Hall, I. M., A new species of microsporidia from the fawn-colored lawn moth, Crambus bonifatellus (Hulst) (Lepidoptera, Crambidae). J. Parasitol., Lancaster, 38. 1952, 487—491.

Hobbs, G. A., The control of destructive insects in forage seed fields. Int. Grassland Conf. 6 (F). 1952, 24—25.

Huber, J. A., Einfluß der Schafweide auf die Vegetation im Hochgebirge. Natursch. u. Landsch.pflege, Köln, 27. 1952, 51—52.

Kelsheimer, E. G., Insects and other pests of lawns and turf. Florida agric. Exp. Stat. Circ. S-42. 1952, 11 p.

Kirjanowa, E. S., (Der Rispengrasnematode Anguina poophila Kirjanowa, sp. nova.) Zool. Žh. (Zool. J.) 31. 1952, 223—227.

Kuitert, L. C., and **Nutter, G. C.,** Chinch bug (Blissus leucopterus) control and subsequent renovation of St. Augustine grass lawns. Florida agric. Exp. Stat. Circ. S-50. 1952, 10 p.

Lawrence, R. L., Florida's turf problems are increased by Rhodes scale. Golfdom 26. 1952, nr. 10, p. 60—61.

Lawrenko. E. M., and **Junatow, A. A.,** (Wasteland in steppes as a result of the action of the Brandt rodent on the steppe grass stand and soil.) Bot. Zh. SSSR 37. 1952, 128—138.

Leiby, R. W., Here's how to »grub-proof« lawns and turf. [control of soil infesting insects with chlordane] Co. Agent, Vo-Ag Teacher 8. 1952, nr. 10, p. 13—14.

Maercks, H., Im Grünland schädliche Wiesenschnaken-(Tipula-)Larven und ihre Bekämpfung. Grünland, Berlin, 1. 1952, 40.

Marchand, H. R., Die Bedeutung der Heuschrecken und Schnabelkerfe als Indikatoren verschiedener Graslandtypen. Diss. Kiel 1952.

Miller, L. W., and **Martyn, E. J.,** A sampling technique for underground grass grubs. [Oncopera intricata] J. austr. Inst. agric. Sci. 18. 1952, 110—111, 2 fig.

Miner, F. D., Biology of the prairie white grub, Phyllophaga crassissima. Arkansas agric. Exp. Stat. Bull. 521. 1952, 73 p.

Neethling, L. J., Serious grass losses caused by veld pest; new method to exterminate snouted harvester termites. [Trinervitermes havilandi] Farmer's Weekly, Bloemfontein, 84. 1952, 65.

Riherd, P. T., Imported parasite checks Rhodes grass pest. [Antonina graminis] South. Seedsman (Texas) 15. 1952, nr. 9, p. 22, 66.

Riherd, P. T., and **Chada, H. L.,** Some scale insects attacking grasses in Texas. Texas agric. Exp. Stat. Progr. Rept. 1461. 1952, 5 p.

Saaltink, G. J., and **Ticheler, J.,** (Living habits in the control of crane fly larvae (Tipula sp.).) Maandbl. Landbouwvoorl.dienst, 's-Gravenhage, 9. 1952, 86—92.

Schmutterer, H., Über drei neue an Gräsern lebende Schildlausarten der deutschen Fauna (Homoptera: Coccoidea). [Rhodania occulta, Trionymus singularis, T. aberrans] Beitr. Ent., Berlin, 2. 1952, 554—566, 28 Abb.

Schøyen, T. H., Engtegen [meadow bug] (Lygus pratensis L.). Norw. Stat. Plantevern, Stjørdal, Flygeskr. 45. 1952, 4 p.

Schread, J. C., Habits and control of the Oriental earthworm. [Pheretima hupeiensis on turf and golf greens] Connecticut agric. Exp. Stat. Bull. 556. 1952, 15 p.

Seliwanowa, S. N., and **Zhukowskij, A. W.**, Effect of irrigation, shelterbelts and forage grasses on pests of spring wheat. [Oscinella frit, Phytophaga destructor] Dokl.Vsesoiuzn. Akad. Sel'skohoz. Nauk im. V. I. Lenina (Proc. Lenin Acad. agric. Sci.) 17. 1952, 37—43.

Shenefelt, R. D., Residual effect of chlordane on crabgrass when applied to lawns for control of sod webworm. J. econ. Ent. 45. 1952, 138—139, 895.

Wadsworth, S. M., The garden chafer on grassland in the south-west. Survey and control trials, 1950 and 1951. [Phyllopertha horticola] Plant Path., London, 1. 1952, 132—133.

Wallace, M. M. H., and **Mahon, J. A.**, Webworm damage to pastures in the south-west of Western Australia. [Talis pedionoma] J. austr. Inst. agric. Sci. 18. 1952, 91—94.

Yamada, T., and **Watanabe, K.**, (Studies on sterility in Sudan grass. 1. Sterility caused by the insect, Calocoris rubrovittatus Matsumura.) Bull. nat. Inst. agric. Sci., ser. G (Anim. Husb.), Nishigahara, 4. 1952, 209—216.

A **new idea** for more and better hay. [spraying and dusting tips in insect control] Country Gentleman, Philadelphia, 122. 1952, nr. 5, p. 31, 68—71.

Weidepflege und Feldmausplagen. Grünland, Berlin, 1. 1952, 53—54.

Virus

Smith, K. M., A virus disease of cocksfoot. [Dactylis glomerata] Plant Path., London, 1. 1952, 118, 1 tab.

5. Handelspflanzen
Commercial plants — Plantes du commerce

a. Tabak
Tobacco — Tabac

Allgemeiner Teil
General part — Partie générale

Beaka, K. H., (Un procédé simple et peu couteux pour la sterilisation de la terre et du terreau dans les semis de tabac.) Tutun (Yugoslavia) 2. 1952, 62—65.

Clayton, E. E., Control of tobacco diseases through resistance — 1912 to 1952. Phytopathology 42. 1952, 482 (Abstr.).

Clayton, E. E., and **Grosso, J. J.**, Testing methods for the evaluation of combinations of disease resistance in tobacco. Phytopathology 42. 1952, 5 (Abstr.).

Fenne, S. B., How to control tobacco diseases. South. Planter, Richmond (Virginia), 113. 1952, nr. 10, p. 6, 18—19.

Fischer, Einige wichtige Tabakkrankheiten. Bauernbl. Schlesw.-Holst. 6./102. 1952, 292—293.

Hunt, R., Tobacco troubles of 1952. Progr. Farmer (Kentucky-Tennessee-West Virginia Ed.) 67. 1952, nr. 9, p. 19, 118.

Jenkins, W. A., Some factors influencing the behavior of disease-resistant fluecured tobaccos during the 1951 growing season. Phytopathology 42. 1952, 284 (Abstr.).

Jones, L. H., Frenching, the tabu of tobacco men. Res. in Rev. (Massachus.) 2. 1952, nr. 2, p. 6—7, 3 fig.

Kincaid, R. R., and **Volk, G. M.**, Soil fumigation for Florida shade tobacco fields. Florida agric. Exp. Stat. Circ. S-45. 1952, 6 p.

Loeters, J. W., and **Stam, J. C.**, Het steriliseren van zaadbedden voor tabak volgens een vereenvoudigde methode. (A simplified method to sterilize tobacco seed beds.) Meded. Dir. Tuinbouw 15. 1952, 811—815, 4 fig.

Marais, J. S. C., Quality in tobacco is essential. Farming South Afr. 27. 1952, 27—28.

Nusbaum, C. J., Fertilization as a factor in tobacco diseases. North Carolina Dept. Agric. Bull. 128. 1952, 18 p.

Smith, W. A., Tobacco pests in Queensland. Queensland agric. J. 75. 1952, 85—104.

Steinberg, R. A., Frenching symptoms produced in Nicotiana tabacum and Nicotiana rustica with optical isomers of isoleucine and leucine and with Bacillus cereus toxin. Plant Physiol., Lancaster, 27. 1952, 302—308, 2 fig.

Stephen, R. C., Disease control in seedbeds. Rhodesian Tobacco J. 4. 1952, nr. 10, p. 53, 55—57.

Stover, R. H., and **Koch, L. W.**, Methyl bromide as a soil fumigant for controlling diseases and weeds in tobacco seedbeds. Sci. Agric., Ottawa, 32. 1952, 411—420, 3 tab.

Tirelli, M., Malattie e parassiti del tabacco non ancora introdotti in Italia. (Diseases and parasites of tobacco not yet introduced into Italy.) Tabacco, Roma, 56. 1952, 263—308, 17 fig.

Valleau, W. D., Breeding tobacco for disease resistance. Econ. Bot., Lancaster, 6. 1952, nr. 1, p. 69—102.

Valleau, W. D., Johnson, E. M., and **Diachun, S.,** Tobacco diseases. Kentucky agric. Exp. Stat. Bull. 581. 1952, 62 p., 35 fig.

Van der Ven, R., Het eerste wereldcongres voor tabak. (The first world congress on tobacco.) Meded. Dir. Tuinbouw, 's-Gravenhage, 15. 1952, 293—311.

Van der Want, J. P. H., Bestrijding van ziekten en schadelijke dieren bij tabaksteelt. Tuinbouwgids, Den Haag, 1952, 589.

Bekämpfung von Schädlingen und Krankheiten im Tabakbau. Dtsch. Tabakbau 1951. 1952, 42.

Better burley with irrigations and insect control. Agric. Bull. (Shell) ADB: 164. 1952, 1 p. (Progr. Farmer Dec. 1952).

How to control diseases — insects in your tobacco plant beds. Virginia agric. Coll. Ext. Circ. 537. 1952, 6 p.

Istituto scientifico Sperimentale per i Tabacchi. Relazione tecnica anno 1951. Tabacco, Roma, 56. 1952, 131—141.

Nichtparasitäre Krankheiten
Diseases not caused by parasites
Maladies non parasitaires

Castagnoli, A., (Estimation of hail damage to Kentucky tabacco.) Genio rur. (Italia) 15. 1952, 701—729.

Izard, C., Étude des tumeurs spontanées de certains hybrides interspécifiques de Nicotiana. Ann. Inst. exp. Tabac Bergerac 1. 1952, nr. 3, p. 15—44.

Izard, C., Recherches sur les tumeurs héréditaires de certains hybrides interspécifiques de Nicotiana. Compt. rend. Acad. Sci., Paris, 234. 1952, 1305—1306.

Kincaid, R. R., and **Volk, G. M.,** Effects of soil fumigation on cigar-wrapper tobacco and on soil nitrogen. Florida agric. Exp. Stat. Bull. 490. 1952, 24 p.

Nishida, S., (Injury of tobacco plants by watersoaking.) Kyushu Noji Shikenjo (Japan) 10. 1952, 178.

Puzzilli, M., Pressione osmotica nel genere Nicotiana in riferimento alla resistenza alla siccità. (Osmotic pressures in the genus Nicotiana in relation to drought resistance.) Tabacco, Roma, 56. 1952, 110—122.

Scarascia, G. T., (On the toxicity to plants of hexachlorocyclohexane. Effects of the gamma isomer on Nicotiana tabacum and Nicotiana rustica.) Tabacco, Roma, 56. 1952, 142—151.

Scarascia, G. T., (The toxicity of benzene hexachloride to plants; effects of the gamma isomer on Nicotiana tabacum and Nicotiana rustica.) Congr. int. Ind. Agr. Relaz. 9. 1952, nr. 1, p. 199—206.

Turcot, C., Probleme et solution des gelées dans la culture du tabac jaune. Rev. Oka, Agron., Méd., Vét., La Trappe, 26. 1952, 41—45.

Wolf, F. A., and **Sharp, D. G.,** Hereditary abnormalities in tobacco. J. Elisha Mitchell sci. Soc. 68. 1952, nr. 1, p. 85—92, 1 fig., 3 tab.

Pflanzliche Feinde
Vegetal parasites — Parasites végétaux

Anderson, P. J., Combating blue mold of tobacco. Connecticut (State) agric. Exp. Stat. Circ. 181. 1952, 12 p.

Cuzin, J., Rey, P., et **Schwartz, D.,** Le muffe del tabacco. Studio qualitativo e quantitativo. (The moulds of tobacco. A qualitative and quantitative study.) Tabacco, Roma, 56. 1952, 163—177.

Efenditch, S., (Comment prévenir et traiter les maladies cryptogamiques dans les semis de tabac.) Tutun (Yugoslavia) 2. 1952, 102—107.

Gigante, R., Osservazioni sulla »farfara« del tabacco in provincia di Lecce. (Observations on the »farfara« of the tobacco in the province of Lecce.) [Pseudomonas tabaci] Ann. Sperim. agr., Roma, 6 (n. ser.). 1952, 1351—1388, 18 fig.

Gutierrez, M. E., Agati, J., and **Bayubay, S.,** Preliminary studies on the reaction of local and newly introduced varieties of tobacco to wilt and mosaic diseases. Philippine J. Agric. 15. 1952, 235—248.

Heggestad, H. E., and **Bowman, D. R.,** Factors associated with stem rot of tobacco caused by Botryosporium. Phytopathology 42. 1952, 10 (Abstr.).

Holdeman, Q. L., and **Graham, T. W.,** Ascochyta leaf spot in tobacco plant beds in south Carolina. Plant Dis. Reptr. 36. 1952, 8.

Hopkins, J. C. F., and **Riley, E. A.,** Bacterial leaf spot of Nicandra physaloides Gaertn. [Pseudomonas tabacum] Rhodesia agric. J. 49. 1952, 343—345, 2 tab.

Hunt, R., To beat blackshank, plan now. Progr. Farmer (Kentucky-Tennessee-West Virginia Ed.) 67. 1952, 19, 89.

Hunt, R. A., and **Valleau, W. D.,** Kentucky program for control of black shank in tobacco. Kentucky agric. Coll. Ext. Circ. 491. 1952, 8 p.

Hyre, R. A., Wind dissemination of Peronospora tabacina. Plant Dis. Reptr. 36. 1952, 335.

Jenkins, W. A., Fusarium wilt in flue-cured tobacco in Virginia. Plant Dis. Reptr. 36. 1952, 391.

Jenkins, W. A., Notes on early season pathology of flue-cured tobacco in southside Virginia and portions of the old belt in North Carolina. Plant Dis. Reptr. 36. 1952, 278.

Jenkins, W. A., Root rot disease complex in tobacco plant beds. Plant Dis. Reptr. 36. 1952, 254.

Johnson, J., and **Fulton, R. W.,** Tobacco wildfire resistance in Wisconsin. [Phytomonas tabaci] Phytopathology 42. 1952, 12 (Abstr.).

Kelman, A., Evaluation of resistance to Pseudomonas solanacearum in tobacco under greenhouse conditions. Phytopathology 42. 1952, 284 (Abstr.). — Proc. Assoc. south. agric. Workers 49. 1952, 139 (Abstr.).

Lucas, G. B., and **Moore, E. L.,** Black shank control in tobacco plant beds. Phytopathology 42. 1952, 285—286 (Abstr.).

McGrew, J. R., A preliminary screening of the genus Nicotiana for resistance to tobacco anthracnose. [Colletotrichum sp.] Phytopathology 42. 1952, 343.

Marcelli, E., Ultimi risultati nella lotta contro l'oidio del tabacco (Erysiphe cichoriacearum). (The most recent results on the control of tobacco powdery mildew (Erysiphe cichoriacearum).) Not. Mal. Piante nr. 20. 1952, 18—22. — Tabacco, Roma, 56. 1952, 370—374.

Moore, E. L., Lucas, G. B., and **Clayton, E. E.,** Granville wilt and black shank resistant tobacco varieties. North Carolina agric. Exp. Stat. Bull. 378. 1952, 18 p.

Nusbaum, C. J., Host-parasite relations of Phytophthora parasitica var. nicotianae in roots of resistant and susceptible tobacco varieties. Phytopathology 42. 1952, 286 (Abstr.).

Nusbaum, C. J., and **Chaplin, J. F.,** Reduction of the incidence of black shank in resistant tobacco varieties by soil fumigation. [Phytophthora parasitica var. nicotianae] Phytopathology 42. 1952, 15 (Abstr.).

Nusbaum, C. J., Lucas, G. B., and **Chaplin, J. F.,** Estimating the inoculum potential of Phytophthora parasitica var. nicotianae in the soil. Phytopathology 42. 1952, 286 (Abstr.).

Peterson, E. L., Growers can fight black root rot. Cigar Val. News 2. 1952, nr. 8, p. 4, 7.

Powers jr., H. R., The cause of wilting in tobacco plants affected by black shank. [Phytophthora parasitica var. nicotianae] Phytopathology 42. 1952, 472—473.

Powers jr., H. R., Water movement in tobacco plants affected by black shank. [Phytophthora parasitica var. nicotianae] Plant Dis. Reptr. 36. 1952, 127.

Powers jr., H. R., and **Lucas, G. B.,** Variation within Phytophthora parasitica var. nicotianae. Plant Dis. Reptr. 36. 1952, 335—336.

Prasad, N., Control of Orobanche on tobacco. Mag. Bansilal Amritlal Coll. Agric. (India) 6. 1952, 12—13.

Prasad, N., and **Patel, I. M.,** Chitri disease of tobacco in Gujarat. [Fusarium] Curr. Sci., Bangalore, 21. 1952, 18.

Prasad, N., and **Shah, C. C.,** Frog's eye disease of tobacco in Gujarat. [Cercospora nicotianae] Mag. Bansilal Amritlal Coll. Agric. (India) 6. 1952, 6—7.

Purswell, D., Blue mold season confronts tobacco farmer. Dixie Co-op. News 3. 1952, nr. 5, p. 1, 6.

Puzzilli, M., (Observations on some American tobacco resistant to mosaic and wildfire and crossing them with our strains of Virginia Bright.) Tabacco, Roma, 56. 1952, nr. 630, p. 21—27.

Schmid, K., Was kann der Tabakpflanzer gegen das Auftreten der Wildfeuerkrankheit tun? [Pseudomonas tabaci] Dtsch. Tabakbau 1951. 1952, 18—19.

Smith, J. A., Will research again save the Kentucky tobacco industry? [black shank] Kentucky Farmer 88. 1952, nr. 4, p. 16—17.

Valleau, W. D., Breeding tobacco for immunity to black shank. [Phytophthora parasitica var. nicotianae] Phytopathology 42. 1952, 288 (Abstr.). — Proc. Assoc. south. agric. Workers 49. 1952, 137.

Vidali, A., Esperienze di lotta contro l'oidio del tabacco (Erysiphe cichoracearum) effetuate in campo a mezzo di carbonato di litio. (Experiments on the control of tobacco oidium (Erysiphe cichoracearum) in the field by means of lithium carbonate.) Tabacco, Roma, 56. 1952, nr. 630, p. 16—20.

Walzel, G., Cuscuta auf Nicotiana Nikotin-frei. Phyton, Horn (Österr.), 4. 1952, 121—123.

Unkräuter
Weeds — Mauvaises herbes

Milton, R. H., Disease-free plants in a weed-free bed. Tennessee Market Bull. 24. 1952, nr. 11, p. 6.

Radovanovitch, J., (Sur la possibilité de destruction des mauvaises herbes par les auxines (hormones) dans les semis de tabac.) Tutun (Yugoslavia) 2. 1952, 81—87.

Thomson, R., Control of weeds in tobacco seedling beds. New Zealand J. Sci., Technol. (A) 33. 1952, nr. 6, p. 74—77.

Wilson, R. W., and **Klingman, G. C.,** Progress in chemical weed control with field grown tobacco. Proc. south. Weed Conf. 5. 1952, 129—132.

Tierische Feinde
Animal parasites — Parasites animaux

Beinhart, E. G., The green peach aphid on tobacco in the Dominican Republic. [Myzus persicae] Science, Lancaster, 116. 1952, 713—714.

Bertossi, F., Effetti di preparati insetticidi a base di Clordano (Octaklor) sulle piante di tabacco. Tabacco (Roma) 56. 1952, nr. 631, p. 62—64.

Caffrey, D. J., Insects that attack tobacco. US Dept. Agric. Yearb. Agric. 1952, 621—628, 4 fig.

Chamberlin, F. S., Control of aphids [Myzus persicae] on shade-grown tobacco. US Bur. Ent., Plant Quar. EC-21. 1952, 8 p.

Dominick, C. B., Green June beetle [Cotinis nitida] larvae control in tobacco plantbeds. Virginia agric. Exp. Stat. Bull. 454. 1952, 15 p.

Garriss, H. R., Yes, nematodes threaten danger to your farm! [control of nematode root rot of tobacco] Progr. Farmer (Carolinas-Virginia Ed.) 67. 1952, nr. 8, p. 16—17, 97.

Graham, T. W., Susceptibility of tobacco species to the root-knot nematode species. Plant Dis. Reptr. 36. 1952, 87—88.

Hunt, R., Don't yield to insects. [tobacco pests] Progr. Farmer (Kentucky-Tennessee-West Virginia Ed.) 67. 1952, nr. 5, p. 19, 155.

Jeter, F. H., It killed nematodes in tobacco. [soil fumigation] South. Planter, Richmond (Virginia), 113. 1952, nr. 3, p. 22—23.

Karman, M., Report on insecticidal experiment on Thrips tabaci Lind. on tobacco plants. Tomurcuk, Instanbul, 1952, nr. 12, p. 14—15.

Lownsbery, B. F., Host preferences of the recently discovered tobacco cyst nematode, Heterodera sp. Phytopathology 42. 1952, 469.

Mai, W. F., Susceptibility of Nicotiana spp. to the golden nematode, Heterodera rostochiensis. Plant Dis. Reptr. 36. 1952, 485—486.

Michel, E., L'emploi des insecticides de synthèse contre les parasites du tabac. Rev. int. Tabacs, Paris, 27. 1952, 126—127.

Miles, P. W., Precaution against insect damage in seedbeds. Rhodesian Tobacco J. 4. 1952, nr. 11, p. 63, 65—66.

Neethling, L. J., Control of eelworm. Rhodesian Tobacco J. 4. 1952, nr. 5, p. 71—73, 105.

Perucci, E., La lotta contro gli afidi nelle piante di tabacco con insetticidi sistemici. (Control of aphids on tobacco plants with systemic insecticides.) Tabacco, Roma, 56. 1952, 362—369.

Rollin, L., Lutte contre les sauterelles autochtones causant des dégâts aux cultures de tabac (année 1951). [HCH] Rev. agric. Afr. Nord 50. 1952, 23—25.

Rosillo, M. A., y Rojo, N. A., Un metodo de control del gusano minador del tabaco (Faustinus cubae) (Boh.) IDIA (Inform. Invest. agríc.), Buenos Aires, 5. 1952, nr. 49, p. 16—20.

Schneider, S., Versuche zur Engerlingsbekämpfung im Tabakanbau. Merck-Blätter, Darmstadt, F. 5. 1952, 6 S.

Shepherd, C. J., Tainting of tobacco by a dichloropropene-dichloropropane soil fumigant. [Heterodera marioni] Nature, London, 170. 1952, 1073—1074.

Tamura, M., (On the chemical control of the curculios (Curculionidae), feeding on tobacco leaves.) Kyushu Noji Shikenjo 10. 1952, 169—170.

Tenhet, J. N., and Bare, C. O., Lindane as an insecticide to control tobacco moth and cigarette beetle. J. econ. Ent. 45. 1952, 218—222.

Tumminello, M., (Organic phosphate insecticides in tobacco culture.) Tabacco, Roma, 56. 1952, 218—221.

Van der Laan, P. A., Epidemiology of some tobacco pests in Deli (Sumatra). Trans. IXth int. Congr. Ent., Amsterdam, 1 (1951). 1952, 795—799, 2 fig.

Zagorowskij, A. W., (New insecticide [parathion] for control of aphids on tobacco.) Tabak (USSR) 13. 1952, nr. 3, p. 50—52.

Une **espèce de nématode** nuisible aux cultures de tabac en Suisse romande: Heterodera marioni Cornu. Rev. rom. Agric., Vitic., Arboric. 8. 1952, 89—90, 1 fig.

Tobacco insect control. Purdue Univ. agric. Ext. Mimeogr. E-43. 1952, 2 p.

Virus

Agapova, I. V., (Inheritance of immunity to tobacco mosaic virus by some Solanaceae during grafting.) Trudy Akad. Nauk SSSR, Inst. Genet., 19. 1952, 248—256.

Akune, S., and Koga, K., (Studies on potassium content of virus-diseased tobacco plants cultivated by different quantities of potassium.) Kagoshima Univ. Fac. Agric. Bull. 1. 1952, 4—9.

Beinhart, E. G., and Morgan, O. D., Preliminary study of sterilizing tobacco stems against mosaic diseases. US Bur. Agric., ind. Chem. AIC-334. 1952, 6 p.

Butsewitsch, L. A., (Certain virus characteristics of chlorosis in the top leaves of Makhorka.) [Aztec tobacco] Tabak (USSR) 4. 1952, 55—57.

Cetas, R. C., and Ross, A. F., Root necrosis virus of Nicotiana glutinosa. Phytopathology 42. 1952, 464.

Chessin, M., Factors influencing susceptibility to tobacco mosaic virus (TMV). Proc. Montana Acad. Sci. 12. 1952, 23—24.

Chiba, Y., and Tominaga, Y., Cytochemical studies on chloroplasts. II. Inhibitory effects of chloroplast-suspensions upon the infectivity of tobacco mosaic virus. Enzymologia, Den Haag, 15. 1952, 267—274, 1 fig.

Cohen, M., and Siegel, A., A quantitative electrophoretic study of competition between two strains of tobacco mosaic virus. II. The physiological age of the leaf as a factor in strain competition in the inoculated leaf. Phytopathology 42. 1952, 464.

Commoner, B., Studies on the biosynthesis of tobacco mosaic virus. Science, Lancaster, 116. 1952, 518—519.

Commoner, B., and **Dietz, P. M.,** Changes in non-protein nitrogen metabolism during tobacco mosaic virus biosynthesis. J. gen. Physiol. 35. 1952, 847—856, 4 fig.

Commoner, B., Newmark, P., and **Rodenberg, S. D.,** An electrophoretic analysis of tobacco mosaic virus biosynthesis. Arch. Biochem., Biophys., New York, 37. 1952, 15—36.

Costa, A. S., Concentration of Brazilian tobacco streak virus in infected plants. Phytopathology 42. 1952, 231—236, 1 fig.

Davis, D., Chemotherapy of tobacco mosaic virus. Phytopathology 42. 1952, 465.

Fulton, R. W., and **Johnson, J.,** Mosaic resistance in Wisconsin tobacco. Phytopathology 42. 1952, 8 (Abstr.).

Gigante, R., Il mascheramento del mosaico del tabacco in provincia di Lecce. (The masking of tobacco mosaic in the province of Lecce.) Ann. Sperim. agr., Roma, 6 (n. ser.). 1952, 835—844, 5 fig.

Gondo, M., Respiration of virus diseased tobacco plant (I). Kagoshima Univ. Fac. Agric. Bull. 1. 1952, 1-3, 1 fig.

Gutierrez, M. E., Agati, J., and **Bayubay, S.,** Preliminary studies on the reaction of local and newly introduced varieties of tobacco to wilt and mosaic diseases. Philippine J. Agric. 15. 1952, 235-248.

Hildebrandt, A. C., Riker, A. J., and **Watertor, J. L.,** Growth and virus activity in tobacco tissue cultures with naphthalene acetic acid or tryptophan. Phytopathology 42. 1952, 467.

Holmes, F. O., Submutants from non-systemic mutant strains of tobacco-mosaic virus. Indian Phytopath. 5. 1952, 8—15, 1 fig.

Jenkins, W. A., A lethal (virus) disease of flue-cured tobacco, new to the old belt. Proc. Assoc. south. agric. Workers 49. 1952, 138.

Kanngießer, W., Elektronenmikroskopische Beobachtungen am Saft gesunder Tabakpflanzen. Naturwissenschaften 39. 1952, 68, 2 Abb.

Knight, C. A., The nucleic acids of some strains of tobacco mosaic virus. J. biol. Chem. 197. 1952, nr. 1, p. 241—249.

Korowin, B. A., (Chemical method as a measure for controlling virus diseases on tobacco.) Tabak (USSR) 13. 1952, 56—58.

Lobo, M. R. C., Tobacco viruses. Gazz. agric., Padova, 4. 1952, 14—15.

Malkiel, S., Immunochemical studies on tobacco mosaic virus. VII. The quantitative precipitin reaction with equine antiserum. VIII. The specificity of chemically-altered virus. J. Immunol., Baltimore, 69. 1952, 515—538, 3 fig.

Marcelli, E., Un virus necrotico isolato da piante di tabacco affette da mosaico. (A necrotic virus isolated from tobacco plants showing the mosaic symptoms.) Not. Mal. Piante nr. 21. 1952, 51—56.

Nariani, T. K., and **Singh, N.,** A mosaic disease of Nicotiana glauca R. Grah. Indian Phytopath. 5. 1952, 47—51, 5 fig.

Nesmejanow, A. N., (Indicator atoms.) Priroda, Moskwa, 41. 1952, nr. 3, p. 28—40.

Nichols, C. W., The inhibition of tobacco mosaic symptoms by application of certain plant hormones. Phytopathology 42. 1952, 517 (Abstr.).

Nichols, C. W., The retarding effect of certain plant hormones on tobacco mosaic symptoms. Phytopathology 42. 1952, 579—580.

Price, W. C., and **Weaver, E. P.,** Complement fixation as a method of differentiating mutant strains of tobacco mosaic virus. Phytopathology 42. 1952, 16 (Abstr.).

Razwjazkina, G. M., (Spreading of virus of surface chlorosis of Aztec tobacco by tobacco thrips. [Thrips tabaci] Tabak (USSR) 13. 1952, 53—59.

Razwjazkina, G. M., (Thrips tabaci — vector of chlorosis of Nicotiana rustica tops.) Zool. Žh. (Zool. J.) 31. 1952, 44—46.

Ryschkow, W. L., und **Marčenko, N. K.,** (Der Einfluß der Inhibitoren des Nucleinaustauschs auf die Vermehrung des Tabakmosaikvirus.) Dokl. Akad. Nauk SSSR 86 (n. ser.). 1952, 637—639.

Schlegal, D. E., Delwiche, C. C., and **Gold, A. H.,** Effect of radioactive phosphorus on symptoms and virus content of mosaic tobacco plants. Phytopathology 42. 1952, 519 (Abstr.).

Schönfellinger, H., und **Broda, E.,** Radioaktives Tabakmosaik. (Kurze Mitteilung.) Monatsh. Chemie, Wien, 83. 1952, 837—839.

Schwalb, H. W., Guerra al virus del tabaco. Hacienda 47. 1952, nr. 9, p. 39—40.

Steere, R. L., and **Williams, R. C.,** Composition of crystalline inclusion bodies of tobacco mosaic virus. Phytopathology 42. 1952, 519 (Abstr.).

Suchow, K. S., (A virus causing chlorosis of the upper leaves of makhorka.) [Nicotiana rustica] Dokl. Vsesoiuzn. Akad. Sel'skohoz. Nauk im. V. I. Lenina (Proc. Lenin Acad. agric. Sci.) 85. 1952, 1381—1382, fig.

Szirmai, J., A new variety of root virus of seedlings. Acta agron. hung., Budapestini, 2. 1952, 275—289.

Takahashi, T., and **Yoshida, D.,** (Studies on the potash nutrition of yellow tobacco. 3.) J. Sci. Soil, Manure, Tokyo, 22. 1952, 288—292.

Takahashi, W. N., and **Ishii, M.,** The formation of rod-shaped particles resembling tobacco mosaic virus by polymerization of a protein from mosaic-diseased tobacco leaves. Phytopathology 42. 1952, 690—691, 1 fig.

Valleau, W. D., The evolution of susceptibility to tobacco mosaic in Nicotiana and the origin of the tobacco mosaic virus. Phytopathology 42. 1952, 40—42.

Van Raalte, M. H., and van der Want, J. P. H., Effect of amino acids on the number of lesions produced in leaves of Nicotiana glutinosa after inoculation with tobacco virus. Proc. Conf. Potato Virus Dis., Wageningen-Lisse, 13.—17. 8. 1951. 1952, 66—70 (Lab. Bloembollenonderz. Lisse Publ. nr. 94).

Varma, P. M., Studies on the relationship of the bhendi yellow vein-mosaic virus and its vector, the white-fly (Bemisia tabaci Gen.). Indian J. agric. Sci. 22. 1952, 75—91.

Wolodarskij, N. I., (Causes for »montar« disease of tobacco.) Agrobiologija, Moskwa, 1. 1952, 133—140.

Yarwood, C. E., Latent period and generation time of tobacco mosaic virus. Phytopathology 42. 1952, 520 (Abstr.).

b. Faserpflanzen
Fibre-plants — Plantes à fibres

Anselme, C., La maladie du pasmo des lins à huile en France. [Septoria linicola] Phytiatrie-Phytopharmacie (France) 1952, nr. 3, 4 p.

Barrons, K. C., Thiegs, B. J., and Watson, A. J., Tolerance of flax to sodium TCA. Down to Earth, Midland (Michigan), 7. 1952, nr. 4, p. 11—12.

Boerger, A., Der Lein als Öl- und Faserpflanze des La Plata-Gebietes. Materiae veg. 1. 1952, 17—42.

Coleman, R. J., and Nord, F. F., On the mechanism of enzyme action. XLIX. The effect of acetate on fat formation in Fusarium lini Bolley and the influence of added naphthoquinones. Arch. Biochem., Biophys., New York, 38. 1952, 385—396.

Crawford, K. B., Problems in line clearing. Rur. Electrif. 10. 1952, nr. 10, p. 28, 60.

Cruickshank, I. A. M., Rust of linseed and linen flax: life cycle and control. [Melampsora lini] New Zealand J. Agric. 85. 1952, 123—124, 3 fig.

Cruickshank, I. A. M., Studies on the physiologic specialization of Melampsora lini (Ehrenb.) Lev. in New Zealand. New Zealand J. Sci., Technol. (B) 34. 1952, 128—133, 2 fig.

Culbertson, J. O., Stoa, T. E., Dunham, R. S., Flor, H. H., and Christensen, J. J., Seed-flax production in the North Central States. [diseases] US Dept. Agric. Farmers' Bull. 2036. 1952, 22 p., 8 fig., 1 tab. geogr.

Cumber, R. A., Studies on Oliarus arkinsoni Myers (Hem. Cixiidae), vector of the »yellow-leaf« disease of Phormium tenax Forst. I. Habits and environment, with a note on natural enemies. II. The nymphal instars and seasonal changes in the composition of nymphal populations. New Zealand J. Sci., Technol. (B) 34. 1952, 92—98, 2 fig.; 160—165, 8 fig.

De Rosbaco, A. M. M., Influencia de las malezas en el rendimiento del lino en Entre Rios (problema No. 711). IDIA (Inform. Invest. agríc.), Buenos Aires, 5. 1952, nr. 58, p. 14—15.

Detroux, L., Utilisation et influence des herbicides sélectifs sur les cultures de lin à fibres. Rev. Agric., Bruxelles, 5. 1952, 1063—1071.

Dunham, R. S., MCPA for flax. [weeds] Down to Earth, Midland (Michigan), 7. 1952, nr. 4, p. 13.

Flor, H. H., Flax rust in North Dakota, 1948—1951. Bi-mon. Bull. North Dakota agric. Exp. Stat. 14. 1952, 161—164.

Frederiksen, P. S., (Alternaria linicola Groves et Skolko; occurrence and damage to Danish flax fields.) Lin, dansk-svensk Hørtidsskr. (Danmark), 6. 1952, 21—28.

Friederich, J. C., (Chemical weed control in fibre and oil flax.) Plattelands-Post (Nederland) 8. 1952, nr. 18, p. 9.

Friederich, J. C., (Chemical weed control in fibre flax.) Zeeuwsch Landbouwbl. 40. 1952, nr. 2120, p. 2.

Friederich, J. C., Chemical weed control in fibre flax and linseed. Versl. Centr. Inst. landbouwkdg. Onderz. 1952, 147—149.

Friederich, J. C., (The disinfection of flaxseed.) Zaadbelangen, 's-Gravenhage, 6. 1952, 29—30.

Fröier, K., and Zienkiewicz, H., (Results from continued experiments with weed-killing chemicals in fibre flax, conducted at the flax laboratory in Svalöf and the flax factory in Laholm.) Lin, dansk-svensk Hørtidsskr. (Danmark), 6. 1952, 33—43.

Godoy, E. F., La siembra de los linos resistentes al marchitamiento y desinfección de la semilla. Rev. Bolsa Com. Rosario (Argent.) 40. 1952, nr. 974, p. 7—10.

Godoy, E. F., y Bruni, O., Ciclo evolutivo de las royas del lino (Melampsora lini) y del maíz (Puccinia sorghi) en la Argentina. (Life-cycle of rusts of flax (Melampsora lini) and maize (Puccinia sorghi) in Argentina.) Rev. argent. Agron. 10. 1952, nr. 1, p. 21—34, 4 fig.

Hahn, H., Das Verhalten resistenter und anfälliger Leinsorten gegenüber Colletotrichum lini Manns et Bolley. Phytopath. Ztschr. 20. 1952, 83—88, 9 Abb.

Hartogensis, H., Here's how to keep your lines cleared with chemical sprays. Co-op. Power 9. 1952, nr. 6, p. 12—13, 22.

Hawn, E. J., and Vanterpool, T. C., The perfect stage of Rhizoctonia solani from flax. Proc. canad. phytopath. Soc. nr. 19. 1952, 16 (Abstr.).

Hoffmann, G., Die Pasmokrankheit des Leins in Mitteldeutschland. [Septoria linicola (Speg.) Gar.] Nachr.bl. dtsch. Pfl.schutzd., Berlin, NF. 6. 1952, 107—109, 2 Abb.

Hofsten, C. G. v., (Yellow-top of flax can be cured through application of boron.) Lantmannen 36. 1952, 111—113.

Houston, B. R., and **Knowles, P. F.,** Studies on flax Fusarium wilt (Fusarium oxysporum f. lini) in California. Phytopathology 42. 1952, 515 (Abstr.).

Kerr, H. B., Rust resistance in linseed. [Melampsora lini] Nature, London, 169. 1952, 159.

Kerr, H. B., The use of excised shoots in linseed investigations. Proc. Linnean Soc. New South Wales 77. 1952, 183—186.

Koopman, M. J. F., and **Kuizenga, P.,** (Report on the investigation of damage to flax seeds.) Maandbl. Landbouwvoorl.dienst, 's-Gravenhage, 9. 1952, 412—426.

Lele, V. C., Indian wild linseed (Linum mysorens Heyne), a possible collateral host of rust of the cultivated linseed (Linum usitatissimum L.) in the hills. Indian Phytopath. 5. 1952, 144—145.

Lele, V. C., Study of physiologic races in linseed rust (Melampsora lini (Pers.) Lev.). Indian Phytopath. 5. 1952, 121—127.

MacDonald, W. P., New aspects of weed control in flax in the United States. Proc. north centr. Weed Control Conf. 9. 1952, 11—12.

Malaguti, G., Una podredumbre del tallo de Crotalaria juncea, causada por Ceratostomella fimbriata. (Stem rot of Crotalaria juncea caused by Ceratostomella fimbriata.) Agron. trop., Maracay, 1. 1952, 287—292, 2 fig.

Marlatt, R. B., Races of Fusarium oxysporum f. lini in Arizona. Diss. Abstr. 12. 1952, 567.

Maselli, J. A., and **Nord, F. F.,** On the mechanism of enzyme action. LI. Effects of naphthoquinones on carbohydrate ➤fat conversion in Fusarium lini Bolley. Arch. Biochem., Biophys., New York, 39. 1952, 406—418.

Misra, A. P., Factors affecting variability in the development of Melampsora lini. Phytopathology 42. 1952, 204—210, 1 fig.

Morschel, J. R., Withertop of linseed. Austr. Plant Dis. Recorder 4. 1952, 5—6.

Nickl-Navratil, H., Erfahrungen bei der Zucht anthraknose-resistenter Flachsstämme. Züchter 22. 1952, 228—232, 10 Abb.

Passlow, T., Heliothis [armigera] control in linseed. Queensland agric. J. 75. 1952, 240—241.

Plantefol, L., Variations des »cornets foliares« tératologiques du Linum usitatissimum L. Compt. rend. Acad. Sci., Paris, 235. 1952, 812—814.

Robinson, R. G., Flax. North centr. Weed Control Conf. Res. Rept. 9. 1952, 86—92.

Rüdiger, W., Über die Wirkung von U 46 (2, 4-D [Na] auf Lein. Beitr. Biol. Pfl. 29. 1952, 185—196.

Rüdiger, W., Zur pathologischen Anatomie des Leins, Linum usitatissimum L. Phytopath. Ztschr. 19. 1952, 34—47, 10 Abb.

Sackston, W. E., Flax diseases in Manitoba in 1951. Canad. Plant Dis. Surv. 31. 1952, 29—31.

Schmidt, O., Chemische Mittel beim Flachsanbau. [Unkraut] Dtsch. landw. Presse 75. 1952, 146.

Schwinghamer, E. A., Parasitism as related to physiologic specialization in Colletotrichum lini Bolley Phytopathology 42. 1952, 18—19 (Abstr.).

Sharma, O. P., and **Nema, K. G.,** A short note on Pythium aphanidermatum (Eds.) Fitz. on Linum grandiflorum Linn. Nagpur agric. Coll. Mag. 26. 1952, nr. 1—4, p. 17.

Silversides, W. H., New aspects of weed control in flax. Proc. north centr. Weed Control Conf. 9. 1952, 5—6.

Thenard, J., L'atomisation et le désherbage du lin. Agriculture, Paris, 16. 1952, nr. 131, p. 24. — Nord agric., Lille, 8. 1952, nr. 28, p. 3.

Vanterpool, T. C., Flax diseases in Saskatchewan in 1950, 1951. Canad. Plant Dis. Surv. 30. 1952, 34—35; 31. 1952, 27—29.

Wallace, M. M., and **Diekmahns, E. C.,** Bole rot of sisal. [Aspergillus niger] East afr. agric. J. 18. 1952, 24—29, 3 fig.

Wegorek, W., (Observations on the occurrence, degree of destruction and combating of flea-beetles on flax sown in various periods.) [Aphthona euphorbiae, Longitarsus parvulus] Roczn. Nauk roln., Kraków, 65. 1952, 171—193.

Zimmermann, Unkrautbekämpfung im Flachs. Landw. Wochenbl. Kurhessen, Waldeck 167. 1952, 550.

Botany of flax. Nature, London, 170. 1952, 557—559.

c. Hopfen
Hop — Houblon

Chollett, Ch. C., and **Breakey, E. P.,** Control of aphids and mites on hops by organic phosphate insecticides. J. econ. Ent. 45. 1952, 349.

Golubinskij, I. N., (Increased immunity of hops to Peronosporaceae as a result of vegetative hybridization.) Selektsiia i Semenovodstvo (Select., Seed Growg.), Moskwa, 19. 1952, nr. 7, p. 73—74.

Jary, S. G., Systemic insecticides for the control of pests of hops. Proc. 3rd int. Congr. Crop Prot., Paris, 1952.

Jones, W., Infection of basal shoots of hop plants by Rhizoctonia solani. Sci. Agric., Ottawa, 32. 1952, 114—115, 1 fig.

Limber, D. P., Hop-nettlehead, a virus disease not found in the United States. [Chlorogenus humuli] Plant Dis. Reptr. 36. 1952, 364.

Merkenschlager, F., Zur Geschichte von E 605 und der Spalter Hopfenfechsungen. Höfchen-Briefe, Leverkusen, 5. 1952, 40—42.

Paine, J., List of insects occurring on the hop. East Malling Res. Stat. Ann. Rept. 1951 (39). 1952, 179—180.

Salmon, E. S., Norton Court Golding, a new hop. [disease-resistant] Pamphl. Wye Coll., Kent, April 1952.

Salmon, E. S., Thirty-third report on the trial of new varieties of hops, 1949. [Verticillium resistance] J. Inst. Brewing, London, n. ser. 48. 1951, 14—20.

d. Ölpflanzen
Oleiferous plants — Plantes oléifères

Allgemeiner Teil
General part — Partie générale

Andrén, F., (Treat fall crop seeds!) [oil plants and grain] Lantmannen 36. 1952, 625—626.

Armstrong, G. M., and Armstrong, J. K., Physiologic races of the Fusaria causing wilts of the Cruciferae. Phytopathology 42. 1952, 1 (Abstr.).

Borg, Å., (News about some of the parasites of oil plants.) Skaraborgs läns Hushålln.sällsk. Tidn. (Sverige) 3. 1952, 32—33.

Sackston, W. E., Diseases of oil seed crops in Manitoba. Proc. canad. Barley Oil Seeds Conf. 1952, 60—61.

Spezieller Teil
Special part — Partie spéciale

Brassica, Sinapis

(Siehe auch — see also — voyez aussi p. 161.)

Böttcher, F. K., Holfidal, ein neues, für die Bienen ungefährliches Mittel gegen den Rapsglanzkäfer (Meligethes aeneus F.). Ztschr. Bienenforsch. 1. 1952, 189—190.

Böttcher, H., Vernichtet die Rapsschädlinge! Dtsch. Landw. 3. 1952, 269—271.

Bonnemaison, L., Principaux parasites animaux des crucifères oléagineuses et méthodes générales de lutte. Déf. Vég. 1952, nr. 1, p. 3—22.

Bonnemaison, L., et Jourdeuil, P., Essais de traitements chimiques contre les adultes et les larves de l'altise d'hiver du colza (Psylliodes chrysocephala L.); emploi d'insecticides télétoxiques. Compt. rend. Acad. Agric. France 39. 1952, 335—338.

Borg, Å., Rapsvivelangrepp i Västergötland 1951. [Ceuthorrhynchus quadridens, C. assimilis] Växtskyddsnotiser, Stockholm, 16. 1952, 23—26, 1 fig.

Bouchet, R., et Desbois, A., Les parasites du colza; biologie et moyens de lutte. Cah. Ing. agron., Paris, 7. 1952, 21—30.

Bowden, S. R., Pupal colour and diapause in Pieris napi L. Entomologist, London, 85. 1952, 175—178.

Eaton, S. V., Effects of phosphorus deficiency on growth and metabolism of black mustard. Bot. Gaz., Chicago, 113. 1952, 301—309.

Ebbe-Nyman, E., Rapsjordloppan, Psylliodes chrysocephala L. Bidrag till kännedom om dess biologi och bekämpning. Stat. Växtskyddsanst., Stockholm, Meddel. nr. 63. 1952, 103 p., 14 fig.

Godan, D., Probleme bei der Bekämpfung von Ölfruchtschädlingen. Naturwissenschaften 39. 1952, 99—105, 6 Abb.

Godan, D., Untersuchungen zur Abtötung der Rapserdflohlarven. I. Die Wirkung von Phosphorsäureestern. Nachr.bl. dtsch. Pfl.schutzd., Braunschweig, 4. 1952, 18—22, 3 Abb.

Godan, D., Untersuchungen zur Bekämpfung der Kohlschotenrüßler- und Kohlschotenmücken-Larven mit Ester- und Gamma-Hexa-Mitteln. [Ceutorrhynchus assimilis u. Dasyneura brassicae an Raps] Anz. Schädl.kunde 25. 1952, 33—36.

Härdtl, H., Der Wechsel der Erdfloharten bei Sommerraps. Beitr. Ent., Berlin, 2. 1952, 109—113.

Jourdeuil, P., L'altise du colza. [Psylliodes chrysocephala] Phytoma, Paris, 5. 1952, nr. 34, p. 18—20, 4 fig.

Kautz, H., Richtigstellungen und Ergänzungen zum Aufsatz »Die gelben Formen von Pieris napi L.«. Ztschr. Wiener ent. Ges. 37. 1952, 43—44.

Kotthoff, P., Die Raps-Minierfliege Phytomyza rufipes Mg. Gesunde Pflanzen 4. 1952, 101—102.

Kürten, P., Untersuchungen über die Bestimmung der Winterfestigkeit von Raps. (Diss.-Auszug) AID-Rundschau, Frankfurt/M., 2. 1952, Nr. 3, S. 11.

Makino, K., Satoh, K., Koike, M., Ueno, N., Sex in Pieris rapae L. and the pteridin content of their wings. Nature, London, 170. 1952, 933—934.

Müller, K. R., Die wichtigsten Rapsschädlinge Sachsen-Anhalts und ihre Bekämpfung. Pfl.schutzamt Sachsen-Anhalt Merkbl. Nr. 69. 1952, 3. Aufl., 6 S., 8 Abb.

Murbach, R., La lutte contre le gros charançon de la tige du colza (Ceuthorrhynchus napi Gyll.). Rev. rom. Agric., Vitic., Arboric. 8. 1952, 95—96.

Nolte, H.-W., Untersuchungen zur Bekämpfung der Rapsschädlinge. I. Die Wirkung von Ester- und Hexa-Mitteln auf die Larve des Rapserdflohs (Psylliodes chrysocephala L.). Nachr.bl. dtsch. Pfl.schutzd., Berlin, NF. 6. 1952, 222—227.

Nolte, H.-W., und **Fritzsche, R.,** Untersuchungen über das Vorkommen verschiedener Meligethes-Arten auf Raps. Beitr. Ent., Berlin, 2. 1952, 434—448, 7 Abb.

Risbec, J., Le ceuthorrhynque des siliques du colza. Formule pour la détermination de la date des traitements insecticides. Compt. rend. Acad. Agric. France Mai 1952, 5 p.

Risbec, J., Contribution à l'étude de Ceuthorrhynchus assimilis Payk. charançon des siliques du colza. Rev. Path. vég., Ent. agric. France 31. 1952, 137—174, 3 tab.

Risbec, J., De l'évolution des insectes nuisibles au colza et des moyens de lutter contre eux. Compt. rend. Acad. Agric. France Juin 1952.

Risbec, J., Réponse aux observations faites par M. Hoffmann à propos de mes recherches sur le comportement du charançon du colza. Rev. Path. vég., Ent. agric. France 31. 1952, 179—180.

Sylvén, E., Angrepp av kålgallmygga på raps och rybs. [Contarinia nasturtii] Växtskyddsnotiser, Stockholm, 16. 1952, 6—8, 3 fig.

Wahlin, B., Frostskador på blommande höstraps. [Frostschäden an Herbstraps] Växtskyddssnotiser, Stockholm, 16. 1952, 92—95.

Warmbrunn, K., Jetzt Rapsstengelrüßler-Bekämpfung. Württ. Wochenbl. Landw. 119. 1952, 185—186.

Warmbrunn, K., Neues zur Rapsglanzkäfer-Bekämpfung. Württemb. Wochenbl. Landw. 119. 1952, 365.

Warmbrunn, K., Schädlingsbekämpfung im Raps im Herbst? Württ. Wochenbl. Landw. 119. 1952, 746.

Denkt rechtzeitig an den Rapsglanzkäfer! Rhein. Bauernztg. 6. 1952, 244.

Jetzt Rapsstengelrüßlerbekämpfung. Bad. landw. Wochenbl. 119. 1952, 167.

Helianthus

Eaton, S. V., Effects of potassium deficiency on growth and metabolism of sunflower plants. Bot. Gaz., Chicago, 114. 1952, 165—180.

Gunar, I. I., Krastina, E. E., and **Briuschkowa, K. A.,** (Effect of 2, 4-dichlorphenoxyacetic acid on sunflower metabolism at different temperatures.) Dokl. Akad. Nauk SSSR 84. 1952, 173—176.

Henderson, J. H. M., and **Bonner, J.,** Auxin metabolism in normal and crown gall tissue of sunflower. Amer. J. Bot. 39. 1952, 444—451, 8 fig.

Nikolić, V., (Sunflower blight.) [Plasmopara halstedii] Saschtita Bilja (Plant Prot.), Beograd, nr. 9. 1952, 42—54, 4 tab.

Sackston, W. E., A species of Itersonilia pathogenic on sunflowers. Proc. canad. phytopath. Soc. nr. 20. 1952, 22 (Abstr.).

Sackston, W. E., Sunflower diseases in Manitoba in 1951. Canad. Plant Dis. Surv. 31. 1952, 36—39.

Spehar, V., (A contribution to the biology of the downy mildew of sunflower (Plasmopara halstedii (Farlow) Ber. et de Toni).) Biljna Proizvodnja (Pflanzenbau), Zagreb, 5. 1952, 26—35.

Ufer, M., Der Einfluß der Juni-Nachtfröste 1949 im Kabulgebiet (Afghanistan) auf Kultur-Sonnenblumen. Ztschr. Pfl.züchtg. 31. 1952, 218—225, 13 Abb.

Weiser, J., Cizopasníci housenek zaviječe slunečnicového Homoesoma nebulella Hbn. se zvláštním zřetelem na druh mattesia povolnyi sp. n. (Parasiten der Raupen der Sonnenblumenmotte, Homoeosoma nebulella Hbn., mit besonderer Berücksichtigung der Art Mattesia povolnyi sp. n.) Zool., ent. Listy (Folia zool., ent.), Brno (CSR), 1. 1952, 252—264, 4 fig., 4 tab.

Woitechowa, W. A., (On causes for the dying off of dicotyledonous plants under the influence of some herbicides.) [effect of 2, 4-D on sunflower and wheat] Agrobiologija, Moskwa, 5. 1952, 126—131.

Linum usitatissimum = III 5 b, p. 151.

Olea

Akdoğan, S., Zeytin yaprak leke hastaliği (Cycloconium oleaginum Cast.). (Die Blattfleckenkrankheit des Ölbaums (Cyclogonium oleaginum Cast.). Tomurcuk, Istanbul, 1952, nr. 3, p. 18—19.

Baines, R. C., and **Thorne, G.,** Citrus-root nematode on olive. Citrus Leaves 32. 1952, nr. 4, p. 22.

Baines, R. C., and **Thorne, G.,** The olive tree as a host of the citrus root nematode. Phytopathology 42. 1952, 77—78, 1 fig.

Baldini, E., e **Guccione, G.,** Osservazioni su di una razza di olivo con antere sterili. (Observations on an olive race with sterile anthers.) Ann. Sperim. agr., Roma, 6 (n. ser.). 1952, 1205—1216, 4 fig., 2 tab.

Biraghi, A., Sul deperimento degli ulivi del Lazio e del Garda. (A disorder of olive trees in Lazio and Garda.) Olearia, Riv. Mat. Grasse, Roma, 6. 1952, 234—237.

Brichet, J., »L'oeil du paon« (Cycloconium), maladie grave du feuillage de l'olivier. Fruits, Primeurs Afr. Nord, Casablanca, 22. 1952, nr. 232, p. 10—11.

Çakillar, M., Zeytinlerde Leucaspis riccae Targ. (Leucaspis riccae Targ. an Ölbäumen.) Tomurcuk, Istanbul, 1952, nr. 11, p. 18—19.

Castellani, E., (Observations and investigations on olive leaf spot in Sardinia. 1. The premature fall of the leaves.) [Cycloconium oleaginum] Olearia, Riv. Mat. Grasse, Roma, 6. 1952, 154—161.

Chella, G., (Control of sooty mold of olives and citrus.) Ispettorato Prov. Agr. Napoli Circ. 6. 1952, 5—7.

Ciferri, R., Descrizione della malattia del tipo leptonecrosi dell'olivo nelle Marche con facies dominante a scopazzi. Olearia, Riv. Mat. Grasse, Roma, 4. 1952, 69—74, 12 fig.

Cipolla, G., Comprobaciones del ataque de Cercospora al olivo. IDIA (Inform. Invest. agríc.), Buenos Aires, 5. 1952, nr. 52, p. 1—2.

Cortes, I. A., Enemigos del olivar. [insects and diseases] Cultivador mod., Barcelona, 35. 1952, 246—248.

Di P. Torres, J., »Tuberculosis« of olive. [Pseudomonas savastonoi] Chacaras e Quintaes, São Paulo, 85. 1952, 170—171.

Federici, E., La trasformazione degli olivastreti. (The transformation of the wild olive scrub [in the Civitavecchia district, Italy].) Italia agric. 89. 1952, 817—822, fig.

Fiori, G., (Phloeotribus scarabaeoides on olives.) Inform. Fitopat., Bologna, 2. 1952, nr. 5, p. 2—3.

Flanders, St. E., Biological observations on parasites of the black scale (Saissetia oleae). [Hymenoptera for control] Ann. ent. Soc. Amer. 45. 1952, 543—549.

Flori, G., Il fleotribo dell'olivo (Phloeotribus scarabaeoides Bern.). Inform. Fitopat., Bologna, 2. 1952, Suppl. nr. 5, p. 2—3, 1 fig.

Fogliani, G., (Enquiries into leptonecrosis of the olive.) Olearia, Riv. Mat. Grasse, Roma, 6. 1952, 346—353.

Frigerio, J. C., Desarollo del olivo en el Oeste de Buenos Aires. [culture] Pampa Argent. 25. 1952, nr. 297, p. 20—21.

Gómez Clemente, F., y **del Rivero, J. M.,** Notas experimentales sobre la mosca del olivo. Bol. Pat. veg., Ent. agríc., Madrid, 19. 1951—52, 279—287, 1 fig.

Govi, G., La cercosporiosi o »piombatura« dell'olivio. (The cercosporiosis or »silver leaf« of olive.) [Cercospora cladosporioides] Ann. Sperim. agr., Roma, 6 (n. ser.). 1952, 69—80, 3 fig., 1 tab., 1 tab. col.

Hartmann, H. T., Post-bloom spray thinning of olives. Calif. Olive Ind. News 7. 1952, nr. 2, p. 1—2.

Hartmann, H. T., Spray thinning of olives with naphthaleneacetic acid. Proc. amer. Soc. hortic. Sci. 59. 1952, 187—195.

Isaakidès, C., La lutte contre la mouche des olives [Dacus oleae] en Grèce. Feuilles Inform. oléic. int., Rome (n. s.), 12. 1952, 168—172.

Jannone, G., (Parasites and diseases of the olive.) [Dacus oleae, Prays oleellus, Phloeothrips oleae, scale insects] Spezia agric. (Italia) 7. 1952, nr. 2, p. 3.

Lutri, I., La carie dell'olivo. (Olive canker.) Giorn. agr., Roma, 62. 1952, 214.

Lychnos, D., Résistance relative de certaines variétés d'olives aux atteintes du Dacus. Feuilles Inform. oléic. int., Rome, 22. 1952, 1052—1059.

McKenzie, H. L., Scale studies. X. Distribution and biological notes on the olive parlatoria scale, Parlatoria oleae (Colvée), in California (Homoptera; Coccoidea; Diaspididae). Bull. Dept. Agric. Calif. 41. 1952, 127—138.

Marinucci, M., (Research on the olive.) Olivicoltura (Italia) 1952, nr. 1.

Martin, H., Contribution à l'étude de la mouche de l'olive Dacus oleae Rossi (Dipt. Trypetid.) en Algérie et en Provence. Mitt. schweiz. ent. Ges. 25. 1952, 341—348, 5 fig.

Melis, A., Esperienze di lotta contro la mosca delle olive nella Toscana litoranea nel 1951. »Redia«, Giorn. Ent., Firenze, 37 (2. ser.). 1952, 121—162, 10 fig.

Morettini, A., and **Massacesei, A.,** (Leccio del Corno, olive strain resistant to low temperatures and Cycloconium.) Agric. tosc., Firenze, 7. 1952, 219—222.

Mühlow, J., (Plant protection problems in oil plant culture.) [insects and diseases] Svensk Jordbruksforskn., Stockholm, 1952, 164—169.

Myburgh, A. C., Olive beetles in the Western Cape Province. Farming South Afr. 27. 1952, 247—249, 253.

Neri, C., (Hail damage to olives.) Genio rur. (Italia) 15. 1952, 187—194.

Nicolini, J. C., Dos cepas de bacterias que producen cancros similares a los de la »tuberculosis del olivo«. (Two strains of bacteria that produce cancers similar to tuberculosis of olive.) [Pseudomonas savastanoi] IDIA (Inform. Invest. agríc.), Buenos Aires, 5. 1952, nr. 52, p. 4—5.

Nicolini, J. C., Control de la caida de las aceitunas. Chacra, Buenos Aires, 23. 1952, nr. 264, p. 33, 56.

Nicolini, J. C., Parálisis parcial del olivo. [virus] Chacra, Buenos Aires, 22. 1952, nr. 254, p. 82.

Nicolini, J. C., La podredumbre de las raices del olivo. [Rosellinia necatrix] Chacra, Buenos Aires, 22. 1952, nr. 255, p. 62—63.

Pasinetti, L., La röntgendiagnostica applicata alla fitografia ed alla fitopatologia. Mem. III. Ricerche sullo stato di demineralizzazione dei tessuti legnosi dell'olivo quale elemento eziopatogenetico della »Lupa«. Ann. Fitopat. (Italia) 1. 1952, 5—25.

Plaut, N., Spraying according to the Vulus system for olive fly (Dacus oleae) control. Hassadeh, Tel-Aviv, 32. 1952, 346—347.

Plaut, N., (Spraying in the Vulus system for controlling the olive fly.) [Dacus oleae] Hassadeh, Tel-Aviv, 32. 1952, 295—297.

Pupillo, M., (Peacock eye or cox of olive.) [Cycloconium oleaginum] Inform. Fitopat., Bologna, 2. 1952, 95—96.

Russo, F., e Spina, P., Indagini sulla formazione delle cosiddette pseudodrupe nell'olivo. (Investigations on the formation of so-called pseudodrupes of olive tree.) Ann. Sperim. agr., Roma, 6 (n. ser.). 1952, 101—118, 13 fig.

Russo, G., e Santoro, R., Esperimenti di lotta antidacica eseguiti in Ascea Marina [Salerno] nel 1950 e 1951. [Dacus oleae] Boll. Lab. Ent. agr. »Filippo Silvestri«, Portici, 11. 1952, 1—50, 14 fig.; 256—311, 10 fig.

Sackston, W. E., Diseases of oil seed crops in Manitoba in 1952. Manitoba Ann. Conf. Agron. 1952, 21—22.

Sarejanni, J. A., et Papaïoannou, A. J., La pathologie des mycoses à Macrophoma des olives. Ann. Inst. phytopath. Benaki 6. 1952, 37—50, 8 tab.

Scaramuzzi, G., Su un seccume dei rametti d'olivo. (A desiccation of the olive branches.) Humus, Milano, 8. 1952, nr. 4, p. 16—18, fig.

Venturi, F., (The olive harvest and the fly [Dacus oleae].) Inform. Fitopat., Bologna, 2. 1952, 17—19.

Visibelli, U., (Tests for control of Phloeothrips (oleae) in Arezzo.) Agric. tosc., Firenze, 7. 1952, 262.

Papaver

Davis, L. H., The Heterosporium disease of California poppy. Mycologia, Lancaster, 44. 1952, 366—376, 3 fig.

Grümmer, G., Beiträge zur Eigenschaftsanalyse der Anfälligkeit von Papaver somniferum gegen Helminthosporium papaveris. 2. u. 3. Mitt. Nachr.bl. dtsch. Pfl.schutzd., Berlin, NF. 6. 1952, 32—36, 1 Abb.; Züchter 22. 1952, 366—373, 10 Abb.

Nolte, H.-W., Alte und neue Mohnschädlinge. Dtsch. Landw. 3. 1952, 379—382, 6 Abb.

Prochazka, F., (The connection between several morphological characteristics of the poppy, between the quantity and size of seeds, resistance to black rot of the pods of the poppy, and utilization of these observations for selection.) Sborník českosl. Acad. Zeměd. (Ann. Acad. tchécosl. Agric.), Praha, 25. 1952, 13—20.

Schrödter, H., Der Einfluß der Temperatur auf das Auftreten und die Entwicklung des Mohnkapselrüßlers. [Ceuthorrhynchus macula-alba] Angew. Meteorol. 1. 1952, 180—184, 3 Abb.

Schrödter, H., und Nolte, H.-W., Freilanduntersuchungen über den Einfluß der Temperatur auf Eiablage und Larvenentwicklung des Mohnkapselrüßlers [Ceuthorrhynchus] macula-alba. Nachr.bl. dtsch. Pfl.schutzd., Berlin, NF. 6. 1952, 67—72, 2 Abb.

Zambettakis, Ch., Recherches sur l'helminthosporiose de l'œillette et son traitement. Ann. Épiphyties, Paris, 3. 1952, 11—59, 15 fig.

e. Gemüsepflanzen
Vegetables — Plantes maraîchères

Allgemeiner Teil
General part — Partie générale

Bain, D. C., and Hare, W. W., Vegetable diseases and their control in Mississippi. Mississippi agric. Exp. Stat. Bull. 453 (rev.). 1952, 31 p. — Mississippi Farm Res. 15. 1952, nr. 12, p. 1—7.

Bravenboer, L., Verschijningstijdstippen van ziekten en kwalen bij groenten onder glas. Tuinbouwgids, Den Haag, 1952, 342.

Bremer, H., ve Biyikoğlu, K., Baklïyat ve sebze tohumlarí üzerinde ilâclaclama denemeleri. (Beizversuche mit Samen von Hülsenfrüchten und Gemüsen.) Bitki Koruma Bülteni (Bull. Plant Prot.), Ankara, 1952, nr. 1, p. 16—28.

Campbell, J. A., Varieties, diseases and fertilization are studied at Truck Crops Branch Experiment Station. Mississippi Farm Res. (Mississippi Stat.) 15. 1952, nr. 9, p. 2, 8.

Chapman, R. K., Low-gallonage treatment on vegetable crops. Proc. amer. Assoc. econ. Entomologists, North Centr. States Br., 7. 1952, 80—81.

Chester, K. St., and McLaughlin, J. H., Recognition and control of vegetable diseases. Oklahoma agric., mechan. Coll., Ext. Serv., Stillwater, Circ. 475. 1952, 15 p.

De Brouwer, W. M. Th. J., en van Koot, Ij., Voorkoming van ziekten in groenteteelt onder glas. Tuinbouwgids, Den Haag, 1952, 343—344.

Godan, D., Pflanzenschutz bei Kohl- und Wurzelgemüse. Kleingärtner u. Siedler 6. 1952, 150, 2 Abb.

Hervey, G. E. R., and Gunkel, W. W., Low gallonage spraying of vegetable crops. Cornell Univ. agric. Exp. Stat. Bull. nr. 753. 1952, 40 p., 12 fig.

Heuberger, J. W., MacCreary, D., and Stevens, R. F., Insect and disease control on vegetables. Delaware Univ. agric. Ext. Folder 26. 1952, 6 p.

Janes, R. L., Andrews, E. A., and Merrill jr., L. G., Insect and disease control on vegetables and truck crops. Michigan State Coll. agric. Ext. Bull. 312. 1952, 40 p.

Kelsheimer, E. G., Walter, J. M., and Beckenbach, J. R., Compatibility of insecticides, fungicides and nutrients for vegetable crops. Florida agric. Exp. Stat. Circ. S-47. 1952, 6 p.

Kotte, W., Krankheiten und Schädlinge im Gemüsebau und ihre Bekämpfung. P. Parey, Berlin u. Hamburg 1952. 2., neubearb. Aufl., 280 S., 186 Abb., 8 Farbtaf.

Kowatschewski, J., Nikolowa, W., und Lasarow, A., (Krankheiten und Schädlinge der Gemüsekulturen.) Landw.verlag, Sofia 1952. 127 S., 33 Abb.

McKeen, C. D., A species of Aphanomyces causing damping-off in peppers and certain other vegetables. Phytopathology 42. 1952, 14 (Abstr.).

Mappes, Qualitätserzeugung im Gemüsebau. AID 1952, Nr. 45, 16 S., 40 Abb.

Mariën, A., (A dead season that lives.) Tuinbouwberichten 16. 1952, 167.

Miège, E., La sterilisation du sol dans la culture maraîchère. Inform. maroc. 581. 1952, 1, 3.

North, C., Vegetative propagation of cabbage and allied vegetables. Empire J. exp. Agric. 20. 1952, nr. 77, p. 43—46.

Ogilvie, L., Recent developments in vegetable diseases in Great Britain. Mimeogr. Pap. 13th int. hortic. Congr., London, 1952, 5.

Ramsey, G. B., Wiant, J. S., and **McColloch, L. P.,** Market diseases of tomatoes, peppers, and eggplants. US Dept. Agric. agric. Handb. nr. 28. 1952.

Schempp, A., Frick, M., Kugelmann, E., und **Weber, P.,** Gemüse- und Obsterzeugung in den USA. AID-Ber. Stud.reisen Ausl.hilfe USA H. 62. 1954, 44 S.

Sleesman, J. P., and **Wilson, J. D.,** Spray and dust formulas for the control of vegetable insects and diseases. Proc. Ohio Veg. Potato Growers Assoc. 37. 1952, 129—132, 134, 136, 138, 140, 142.

Stahl, M., Krankheiten im Gemüsegarten. Kosmos 48. 1952, 234—237, 279—283.

Starnes, O., and **Reed, J. P.,** Control of vegetable insects on commercial plantings. New Jersey agric. Coll. Ext. Spray Calendar 49. 1952, 16 p.

Taylor, R. E., Vegetable diseases. Worcestershire agric. Chron. 20. 1952, 293, 295, 297, 299.

Walker, J. Ch., Diseases of vegetable crops. McGraw-Hill Book Comp., Inc., New York/Toronto/London 1952. IX + 529 p., 117 fig.

Watson, R. C., Seed and soil treatments for prevention of diseases in vegetables and flowers. Idaho agric. Exp. Stat. Mimeogr. Leafl. 119. 1952, 10 p.

Work, P., What to catalog for 1953. [disease resistant varieties] Seed World 70. 1952, nr. 4, p. 8, 48—49, 3 fig.

Bestrijding van ziekten en schadelijke dieren bij de groente- en zaadteelt. Tuinbouwgids, Den Haag, 1952, 345—368, 7 tab.

Brassicol schützt die Gemüseaussaaten. Rhein. Bauernztg. 6. 1952, 227.

Nimm Kupferkalk — dann bleiben sie gesund! [Gemüse] Landw. Wochenbl., München, 142. 1952, 841.

Protect your vegetable crops the Eastern States way. East. States Farmers' Exch., West Springfield (Massachus.) 1952. 31 p.

Nichtparasitäre Krankheiten
Diseases not caused by parasites
Maladies non parasitaires

Delver, P., (Manganese deficiency of some vegetables.) Groenten en Fruit 7. 1952, 793, 795.

Smith, W. H., Deterioration in fruits and vegetables during marketing. Fruit Grower, London, 1952, nr. 2949, p. 22—23.

Marktbeeinflussende Dürreschäden bei Obst und Gemüse. Mitt. dtsch. Landw.-Ges., Frankfurt/M., 67. 1952, 810, 1 Kart.

Pflanzliche Feinde
Vegetal parasites — Parasites végétaux

Jacks, H., Seed disinfection. III. Effect of seed dressings applied at different concentrations on emergence of vegetable seedlings. IV. Effect of seed dressings, applied separately or as mixtures, on emergence of certain vegetable seeds. New Zealand J. Sci., Technol. (A) 34. 1952, 202—208.

Linnasalmi, A., Damping-off on herbaceous vegetables and ornamental plants grown under glass in Finland. Ann. bot. Soc. zool-bot. fenn. »Vanamo« 26. 1952, nr. 1, p. 1—120, 33 fig.

Miller, P. R., Fungicides effective on vegetable crops. Agric. Chem., Baltimore, 7. 1952, 67—69.

Unkräuter
Weeds — Mauvaises herbes

Alban, E. K., Chemical weed control with commercial vegetable crops. Proc. Ohio Veg., Potato Growers Assoc. 37. 1952, 163—164, 166—168, 170—172, 174.

Bouchet, R. L., Applications nouvelles du 2, 4-dichlorophenoxyacetate de sodium et du dinitrophenate d'ammonium dans le domaine du desherbage sélectif des culture maraîchères et ornementales. [Mimeogr. Pap.] 13th int. hortic. Congr., London, 1952, 6 p.

Carew, J., Chemical weeding of vegetables. New York agric. Coll. Cornell Ext. Bull. 769 (rev.). 1952, 18 p.

Crête, R., Les herbicides en culture potagère. Rev. Oka, Agron., Méd., Vét., La Trappe, 26. 1952, 55—63.

Ferguson, W., Chemical weed control in vegetable crops in Canada. [Mimeogr. Pap.] 13th int. hortic. Congr., London, 1952, 10 p.

McKeen, C. D., Aphanomyces cladogamus Drech., a cause of damping-off in peppers and certain other vegetables. Canad. J. Bot. 30. 1952, 701—709, 3 tab.

Menis, Y., (New methods for weed control in vegetable garden.) Hassadeh, Tel-Aviv, 32. 1952, 274—276.

Müller, H. W. K., Alte und neue Mittel gegen Gemüse-Unkräuter. Gartenwelt 52. 1952, 182, 1 Abb.

Noll, C. J., Chemical weeding of vegetables. Pennsylv. Farmer 146. 1952, 426—427, 440.

Schoenemann, J. A., The use of chemicals in weeding vegetable crops. Wisconsin Hortic. 42. 1952, p. 216, 224.

Schudel, H. L., Vegetable seed production in Oregon. [herbicides] Oregon agric. Exp. Stat. Bull. 512. 1952, 79.

Sweet, R. D., Chemical weeding of vegetables. Proc. Connecticut Veg. Growers' Assoc. 39. 1952, 31—37.

Warren, G. F., and **Larson, J. E.,** Herbicidal mixtures for weed control in vegetable crops. Proc. north centr. Weed Control Conf. 9. 1952, 72—73.

Ukrudtsbekaempelse i kepaløg (zittauerløg) og porrer. Stat. Forsøgsvirks., Plantekult., København, Meddel. 450. 1952, 2. ed., 4 p.

Tierische Feinde
Animal parasites — Parasites animaux

Beckham, C. M., A parasite of the vegetable weevil. [Hyalomyodes triangulifera on Listroderes costirostris obliquus] J. econ. Ent. 45. 1952, 541.

Cumber, R. A., The establishment in New Zealand of Microphanurus basalis Woll. (Scelionidae: Hym.), egg-parasite of the green vegetable bug, Nezara viridula L. (Pentatomidae). New Zealand J. Sci., Technol. (B) 34. 1952, 267—269.

Dowdy, A. C., and **Sleesman, J. P.,** Systemic poisons on vegetable crops. J. econ. Ent. 45. 1952, 640—643, 2 fig.

Edwards, G. R., Insect pests of vegetable crops. VIII. Insect pests of root crops. J. Dept. Agric. South Austr. 55. 1952, 506—509.

Endrigkeit, A., Neue Verfahren zur Insektenbekämpfung im Gemüsebau. Gesunde Pflanzen 4. 1952, 240—242.

Gould, G. E., Control of wireworms on vegetable crops. Proc. amer. Assoc. econ. Entomologists, North Centr. States Br., 7. 1952, 61—62.

Hofmaster, R. N., The vegetable weevil. Veg. Growers News (Virginia agric. Coll. Ext.) 6. 1952, nr. 8, p. 3.

Jančařík, R. A., Herpetocypris chevreuxi (Ostracoda) — nový škůdce zeleniny. (Herpetocypris chevreuxi (Ostracoda) — a new plant parasite of vegetable.) Zool., ent. Listy (Folia zool., ent.), Brno (CSR), 1. 1952, 111—114, 15 fig.

Mills jr., H. O., Be ready for the war on vegetable pests. [insecticides] East. States Coop. 28. 1952, nr. 4/5, p. 40—41.

Seinhorst, J. W., (Eelworms menacing horticultural crops.) Meded. Dir. Tuinbouw 15. 1952, 773—776.

Shurtleff, M. C., Howard, F. L., and **Kerr, T. W.,** Vegetable pest control program. Rhode Island State Coll. Ext. Bull. 137 (rev.). 1952, 11 p.

Smith, F. F., Fulton, R. A., and **Edwards, F. L.,** New insecticides for greenhouse vegetables. Veg. Growers Assoc. Amer. Ann. Rept. 1951. 1952, 21—28.

Starnes, O., and **Reed, J. P.,** Control of vegetable insects on commercial plantings. New Jersey agric. Coll. Ext. Spray Calendar nr. 49. 1952, 16 p.

Stiles, C. F., Vegetable insect control. Oklahoma agric. Coll. Ext. Circ. 414. 1952, 8 p.

Control program for insects and other pests of truck crops. Washington State Coll. Ext. Mimeogr. nr. 635. 1952, 8 p.

Manitoba vegetable insect control. Manitoba Dept. Agric. Immigr. Publ. 252. 1952, 4 p.

Schutz gegen Kaninchen und Vögel. Mitt. dtsch. Landw.-Ges., Frankfurt/M., 67. 1952, Beil. »Das Reich der Landfrau« S. 109, 2 Abb.

Vorbeugende Bekämpfung von Wurzelfliegen. Gartenwelt 52. 1952, 198.

Virus

Smith, K. M., Some virus diseases of vegetables and ornamental plants. 13th int. hortic. Congr., London, Mimeogr. Pap. 1952, 4 p.

Spezieller Teil
Special part — Partie spéciale

Allium

Alban, E. K., Pre- and post-emergence weed control in onions. Proc. north centr. Weed Control Conf. 9. 1952, 77—81.

Banham, F. L., and **Finlayson, D. G.,** The effect of certain insecticides on the germination and growth of onions. I. Insecticides applied to the soil; II. insecticides applied to the seed. Proc. ent. Soc. brit. Columbia 48. 1952, 67—76.

Conroy, R. J., Onion diseases in New South Wales during the current season. Austr. Plant Dis. Recorder 4. 1952, 8.

Delitala, A., Il »marciume bianco« della cipolla da Sclerotium cepivorum. Inform. Fitopat., Bologna, Pubbl. quindic. (Gr. II), 2. 1952, 14—16, 2 fig.

Doane, C. C., Onion maggot [Hylemyia antiqua] control in onions grown for sets. Proc. amer. Assoc. econ. Entomologists, North Centr. States Br., 7. 1952, 62—63.

Doane, C. C., and **Chapman, R. K.,** Onion maggot [Hylemyia antiqua] control. J. Hyman & Comp. S 352. 1952, 3 p.

Eichler, W., Gieß- und Spritzverfahren als therapeutische Maßnahmen zur Zwiebelfliegenbekämpfung durch Kontaktinsektizide. [Hylemyia antiqua Meigen] Nachr.bl. dtsch. Pfl.schutzd., Berlin, NF. 6. 1952, 167—171, 2 Abb.

Ejsing, G., (An experiment in treating seed shallots for fungus.) Gartnertidende, København, 68. 1952, 123—124.

Finlayson, D. G., The effect of certain insecticides on the germination and growth of onions. II. Insecticides applied to the soil. Proc. ent. Soc. brit. Columbia 48. 1952, 70—76.

Gasiorkiewicz, E. C., Variability in the onion pink root fungus induced by nitrogen mustard. [Pyrenochaeta terrestris] Phytopathology 42. 1952, 9 (Abstr.).

Guttman, R., An interpretation of some mitotic irregularities using the poison distribution. Amer. J. Bot. 39. 1952, 528—534, 9 fig.

Harrison, R. A., and **Jacks, H.,** Control of onion thrips. I. Preliminary selection of insecticides. New Zealand J. Sci., Technol. (A) 34. 1952, 335—338.

Isaewa, A. J., (Onion snout beetle and measures for its control.) Sad i Ogorod (Orchard and Garden) 11. 1952, 57—59.

Jamalainen, E. A., Sipulin tuotantoon vaikuttavista haitallisista tekijöistä ja Sipulin viljelyn edistämistoimenpiteistä. (On factors hampering production and measures for promoting onion cultivation.) Valt. Maatalousk. Tiedon. (Repts. finn. State agric. Res. Board), Helsinki, nr. 225. 1952, 45 p., 14 fig.

Joubert, C. J., The onion thrips [Thrips tabaci] and »witroes« in onion plants. Farming South Afr. 27. 1952, 420.

Kaiser, W., Ein Weg zur Bekämpfung der Zwiebelfliege. Saatgutbehandlung mit einem Berührungsgift. [Hylemyia antiqua] Gesunde Pflanzen 4. 1952, 49—52.

Katsuki, S., and **Hion, T.,** (Leaf blight disease of scallion caused by Rhabdospora.) J. Plant Prot., Tokyo, 37/38. 1952, 289—293.

Keyder, S., Sogan kĭrmĭzĭ kurdu. (Der rote Zwiebelwurm.) [Dyspessa ululа] Tomurcuk, Istanbul, 1952, nr. 1, p. 8—9.

Larson, R. H., and **Walker, J. C.,** Arasan for smut control in set-onion plantings. [Urocystis cepulae] Phytopathology 42. 1952, 469.

Lelliott, R. A., A new bacterial disease of leeks. [Pseudomonas] Plant Path., London, 1. 1952, 84, 1 tab.

McAnelly, C. W., and **Thomas, W. D.,** Control of purple blotch of onions by sprays. J. Colorado-Wyoming Acad. Sci. 4. 1952, 72 (Abstr.).

Mahmud, K. A., A preliminary report on loop-top of garlic. Sci. and Cult., Calcutta, 17. 1952, 296.

Merrill jr., L. G., Relative effectiveness of various insecticides for control of onion thrips [Thrips tabaci] under Michigan conditions. Michigan agric. Exp. Stat. Quart. Bull. 34. 1952, 238—244.

Mezzetti, A., (Edema of garlic cloves.) Inform. Fitopat., Bologna, 2. 1952, 39—40.

Mezzetti, A., (A nematode of garlic bulbs.) Inform. Fitopat., Bologna, 2. 1952, 83—86.

Müller, K. R., Die Zwiebelfliege und ihre Bekämpfung. [Hylemyia antiqua] Pfl.schutzamt Sachsen-Anhalt Merkbl. Nr. 28. 1952, 7. Aufl., 6 S., 7 Abb.

Newhall, A. G., and **Rawlins, W. A.,** Combined program for control of onion blast, mildew, and thrips. Farm Res. (New York State Stat.) 18. 1952, 13.

Newhall, A. G., and **Rawlins, W. A.,** Control of onion blast and mildew with carbamates. Phytopathology 42. 1952, 212—214.

Newhall, A. G., Rawlins, W. A., and **Sloan, M. J.,** Control of onion maggot and smut by one treatment at seeding time. [Hylemyia antiqua] Phytopathology 42. 1952, 15 (Abstr.).

Newhall, A. G., Segall, R., Rawlins, W. A., and **Sloan, M. J.,** Control of onion blast and mildew. Phytopathology 42. 1952, 15 (Abstr.).

Perron, J. P., and **Lafrance, J.,** A note on a dipterous predator of the onion maggot, Hylemyia antiqua (Meig.). [Coenosia tigrina] Canad. Entomologist 84. 1952, 112.

Richardson, B. H., Control of onion thrips [Thrips tabaci] in the Winter Garden area of Texas. Texas agric. Exp. Stat. Progr. Rept. 1500. 1952, 2 p.

Richardson, B. H., and **Wene, G. P.,** Control of onion thrips in Texas. J. econ. Ent. 45. 1952, 258—262.

Røed, H., Botryotinia porri (Beyma Thoe Kingma) Whetz. [on Allium porrum in Norway] Acta agric. Scand., Stockholm, 2. 1952, 232—246, 1 fig.

Rozsypal, J., Dyspessa ululа Bkh. škůdce cibulové zeleniny na již. Moravě. (Dyspessa ululа Bkh., ein Schädling am Zwiebelgemüse.) Zool., ent. Listy (Folia zool., ent.), Brno (CSR), 1. 1952, 137—150, 2 fig., 3 tab. — Trans. IXth int. Congr. Ent., Amsterdam, 1 (1951). 1952, 656—659, 3 fig.

Skiles, R. L., Purple and brown blotch of onions. [Alternaria] Phytopathology 42. 1952, 20 (Abstr.).

Tatebe, T., (Cytological studies on pollen degeneration in male sterile onions.) J. hortic. Assoc. Japan 21. 1952, 73—75.

Thomas, W. D., Bacterial leaf blight, a new disease of onions. J. Colorado-Wyoming Acad. Sci. 4. 1952, 68 (Abstr.).

Van Beekom, C. W. C., Uien en sjalotten. (Onions and shallots.) [diseases and insects] Meded. Tuinbouwvoorl.dienst,'s-Gravenhage, nr. 49. 1952, 132 p., fig.

Vidal Mora, J. M., La roya de los ajos. Bol. Agric. (Balearic Isl., Diputac. prov.) 94. 1952, 7.

Viennot-Bourgin, G., Une maladie [Botrytis squamosa] à sclérote des bulbes et des feuilles d'oignon, nouvelle pour la France. Compt. rend. Acad. Agric. France 39. 1952, 569—570.

Viennot-Bourgin, G., Sur la présence en France de Botrytis squamosa, parasite de l'oignon. Rev. Path. vég., Ent. agric. France 31. 1952, 82—98, 4 fig.

Walther, R., Unkrautbekämpfung bei Zwiebeln. Gartenwelt 52. 1952, 302.

Warid, W. A., and **Tims, E. C.,** Studies on the inheritance of resistance to downy mildew in onion incited by Peronospora destructor. Phytopathology 42. 1952, 22 (Abstr.).

Wene, G. P., and **White, A. N.,** Control of onion thrips (Thrips tabaci) during the 1951 season. Proc. Rio Grande Valley hortic. Inst. 6. 1952, 80—82.

New onion disease. [undescribed bacterium] Seed World 71. 1952, nr. 7, p. 26.

Onion growing. (Dept. Agric.), Dublin, Leafl. nr. 118. 1952, 7 p.

Unkrautbekämpfung bei Zwiebeln. Gartenwelt 52. 1952, 218.

Apium graveolens

Bant, J. H., and **Storey, I. F.,** Hot-water treatment of celery seed in Lancashire. [Phoma lingam] Plant Path., London, 1. 1952, 81—83.

Dorst, H. E., and **Knowlton, G. F.,** Controlling aphids and other insects on celery. Utah State agric. Coll. Ext. Circ. nr. 159. 1952, 2 p.

Essig, E. O., A change in the nomenclature of carrot and celery aphids. J. econ. Ent. 45. 1952, 752.

Geraldson, C. M., Studies on control of blackheart of celery. Proc. Florida State hortic. Soc. 1952, 171—173.

Gerstner, W., Untersuchungen über die Biologie des Erregers des Sellerieschorfes (Phoma apiicola Klebahn). Wiss. Ztschr. Martin-Luther-Univ. 2. 1952, 83—126, 37 Abb.

Hills, L. D., Celery — the »neverwell« crop. [Septoria apii] [Comm. Grower] nr. 2973. 1952, 1149—1150.

Knott, J. E., The problem of »brown checking« of celery. Mimeogr. Pap. 13th int. hortic. Congr., London, 1952, 10 p.

Knowlton, G. F., and **Palmer, M. A.,** Celery field aphids in Utah. [vectors of mosaic] J. Kansas ent. Soc. 25. 1952, 69—71.

Lindhardt, K., Angreb af staengelål (Ditylenchus dipsaci) på selleri. (Infestation of celeriac by the stem and bulb eelworm.) Gartnertidende, København, 68. 1952, 488.

Lownsbery, B. F., and **Lownsbery, J. W.,** Paratylenchus hamatus Thorne et Allen associated with celery disease in Connecticut. Phytopathology 42. 1952, 13 (Abstr.).

Lownsbery, B. F., Stoddard, E. M., and **Lownsbery, J. W.,** Paratylenchus hamatus pathogenic to celery. Phytopathology 42. 1952, 651—653, 2 fig.

Middleton, J. T., Hall, B. J., Wedding, R. T., and **Kendrick jr., J. B.,** Adaxial crack stem of celery. Phytopathology 42. 1952, 603—606, 2 fig.

Middleton, J. T., Kendrick jr., J. B., and **Hall, B. J.,** Parasitic and nonparasitic diseases of celery in Southern California. Plant Dis. Reptr. 36. 1952, 188—193.

Minges, P. A., Yamaguchi, M., Knott, J. E., Spurr, A. R., and **Welch, J. E.,** Brown checking of celery. Variety and relative accumulation of potassium and boron found to be factors affecting incidence of disease. [boron deficiency] Calif. Agric., Berkeley, 6. 1952, nr. 12, p. 5—6, 3 fig.

Munger, H. M., and **Newhall, A. G.,** Emerson Pascal, a blight-resistant celery. Farm Res. (New York State Stat.) 18. 1952, 11.

Pope, D. T., Munger, H. M., and **Carew, J.,** Chlorosis in celery — an inherited magnesium deficiency. Farm Res. (New York State Stat.) 18. 1952, nr. 2, p. 10.

Schmidt, T., Septoria-Blattfleckenkrankheit des Selleries (Septoria apii Chester). Pflanzenarzt, Wien, 5. 1952, Nr. 5, S. 7, 1 Abb.

Swank jr., G., The control of damping-off organisms in celery seedbeds. Proc. Florida State hortic. Soc. 64 (1951). 1952, 112—115.

Tarjan, A. C., Lownsbery jr., B. F., and **Hawley, W. O.,** Pathogenicity of some plant-parasitic nematodes from Florida soils. I. The effect of Dolichodorus heterocephalus Cobb on celery. Phytopathology 42. 1952, 131—132, 1 fig.

Vaughan, E. K., Control of celery late blight. [Septoria apii] Phytopathology 42. 1952, 519 (Abstr.).

Wager, V. A., Leaf-spot disease of celery. [Septoria apii-graveolentis] Farming South Afr. 27. 1952, 335—336, 2 fig.

Westgate, P. J., Preliminary results and observations on blackheart of celery. Proc. Florida State hortic. Soc. 64 (1951). 1952, 87—92.

Sprays, dusts cut damage to celery. Seed World 71. 1952, 41.

Ukrudtsbekaempelse i gulerødder, selleri m. fl. Stat. Forsøgsvirks., Plantekult., København, Meddel. 451. 1952, 2. ed., 4 p.

Asparagus officinalis

App, F., Crag herbicide for weeds in asparagus. New Jersey Farm, Garden 23. 1952, nr. 3, p. 41—43.

Crittenden, H. W., Resistance of asparagus to Meloidogyne incognita var. acrita. Phytopathology 42. 1952, 6 (Abstr.).

Debus, P., Wege zu erfolgreichem Spargelbau. [Krankheiten und Schädlinge] E. Ulmer, Stuttgart/z. Z. Ludwigsburg 1952. 60 S., 20 Abb., 2 Karten (Grundl. u. Fortschr. Garten- u. Weinbau H. 104).

Delplace, E., et Desbois, A., Nouveau procédé de lutte chimique contre la mouche de l'asperge ou mouche d'Argenteuil (Platyparea poeciloptera Schr.). Rev. hortic., Paris, 124. 1952, 658—659.

Di Caro, S., Il »mal vinato« con special riguardo a quello dell'asparago. (Violet root-rot (»mal vinato«) with special regard to that of asparagus.) [Helicobasidium purpureum] Ann. Sperim. agr., Roma, 6 (n. ser.). 1952, 1389—1397, 1 tab., 1 tab. col.

Graham, K. M., A fusarial disease of seedling asparagus in Ontario. Phytopathology 42. 1952, 9 (Abstr.).

Hassebrauk, K., Bedrohliche Zunahme des Spargelrostauftretens. Mitt. dtsch. Landw.-Ges., Frankfurt/M., 67. 1952, 394, 1 Abb.

Hassebrauk, K., Kampf dem Spargelrost. Hannov. land-, forstw. Ztg. 105. 1952, 294.

Hassebrauk, K., Der Spargelrost droht! Bad. landw. Wochenbl. 119. 1952, 301.

Hassebrauk, K., und Horn, A. v., Untersuchungen über die Bekämpfungsmöglichkeit des Spargelrostes (Puccinia asparagi) mit Fungiziden. Nachr.bl. dtsch. Pfl.schutzd., Braunschweig, 4. 1952, 100—103, 4 Abb.

Hepler, P. A., and Kahn, R. P., Asparagus rust disease and its control. [Puccinia asparagi] Food Packer, New York, 33. 1952, nr. 5, p. 44, 46, 60—61, 3 fig.

Kahn, R. P., An investigation of asparagus rust and its causal agent, Puccinia asparagi DC., in Illinois. Diss. Abstr. 12. 1952, 9.

Kahn, R. P., Anderson, H. W., and Hepler, P. R., Asparagus rust investigations in Illinois. Phytopathology 42. 1952, 13 (Abstr.).

Kahn, R. P., Anderson, H. W., Hepler, P. R., and Linn, M. B., An investigation of asparagus rust in Illinois: its causal agent and its control. Illinois agric. Exp. Stat. Bull. 559. 1952, 56 p.

Thomas, P. H., Asparagus culture. Tasmanian J. Agric. 23. 1952, 268—275, fig.

Brassica

(Siehe auch — see also — voyez aussi p. 153.)

Allgemeiner Teil
General part — Partie générale

Ball, H., Spraying saved my spring cabbage. Grower, London, 37. 1952, 30—31.

Eddins, A. H., Diseases, deficiencies and injuries of cabbage and other crucifers in Florida. Florida agric. Exp. Stat. Bull. 492. 1952, 63 p.

Godan, D., Pflanzenschutz bei Kohl- und Wurzelgemüse. Kleingärtner u. Siedler 6. 1952, 150, 2 Abb.

Hamacher, W., Weißkohlanbau in Gefahr! Landw. Ztschr. Nord-Rheinprov. 119. 1952, 790—791, 4 Abb.

Marvel, M. E., Cauliflower seedbed fumigation with methyl bromide. West Virginia agric. Exp. Stat. Curr. Rept. 2. 1952, 9 p.

North, C., Vegetative propagation of cabbage and allied vegetables. Empire J. exp. Agric. 20. 1952, nr. 77, p. 43—46.

Van der Linden, L., (Hints to the cabbage growers.) Tuinbouwberichten 16. 1952, 99—100.

Van Hoof, H. A., Cause of pit in cabbage and control of this disease. Zaadbelangen, 's-Gravenhage, 6. 1952, 138—139.

Nichtparasitäre Krankheiten
Diseases not caused by parasites
Maladies non parasitaires

Agarwala, S. C., The effect of molybdenum and nitrate status on the carbohydrate and nitrogen metabolism of cauliflower plants in sand culture. Ann. Rept. agric., hortic. Res. Stat., Long Ashton (Bristol), 1951. 1952, 70—77.

Agarwala, S. C., and Williams, A. H., The effects of inter-relationships between molybdenum and nitrogen supply on the free amino-acid status of cauliflower plants grown in sand culture. Ann. Rept. agric., hortic. Res. Stat., Long Ashton (Bristol), 1951. 1952, 66—70.

Davidsson, I., (Molybdenum deficiency of cauliflower.) Ársrit Gardyrkjufélag Íslands 1952, 54—56.

Den Boer, W., and van Staalduine, D., (Physiogenic diseases of cauliflower.) Groenten en Fruit 7. 1952, 861—862.

Haworth, F., A note on boron deficiency of Brassicae on St. Coombs. Tea Quart. (J. Tea Res. Inst.), Ceylon, 23. 1952, nr. 3, p. 86.

Jagendorf, A. T., An atypical growth of cabbage seedling roots. II. The nitrogen co-factor and relationship to auxin activity. Amer. J. Bot. 39. 1952, 546—552, 4 fig.

Jagendorf, A. T., Bonner, D. M., and Naylor, A. W., An atypical growth of cabbage-seedling roots. I. Morphology, histology, and induction conditions. Bot. Gaz., Chicago, 113. 1952, 334—347.

Pflanzliche Feinde
Vegetal parasites — Parasites végétaux

Andes, J. O., Fungicides for turnip-green leafspot control. [Cercosporella albomaculans] Phytopathology 42. 1952, 281—282 (Abstr.).

Bain, D. C., Reaction of Brassica seedlings to blackrot. Phytopathology 42. 1952, 497—500.

Cook, A. A., Relation of the black rot pathogen to cabbage seed. [Xanthomonas campestris] Phytopathology 42. 1952, 5 (Abstr.).

Cook, A. A., Larson, R. H., and **Walker, J. C.,** Relation of the black rot pathogen to cabbage seed. [Xanthomonas campestris] Phytopathology 42. 1952, 316—320, 2 fig.

Cook, A. A., Walker, J. C., and **Larson, R. H.,** Studies on the disease cycle of black rot of crucifers. [Xanthomonas campestris] Phytopathology 42. 1952, 162—167, 2 fig.

Doran, W. L., Clubroot still a cabbage pest. Res. in Rev. (Massachus. Stat.) 1. 1952, nr. 2, p. 8—9.

Eddins, A. H., Distribution of cabbage yellows in Florida in 1952. [Fusarium oxysporum f. conglutinans (Wr.) Snyder et Hansen] Plant Dis. Reptr. 36. 1952, 337—338.

Edwards, G. R., Ring spot of brussel sprouts and cabbages. [Mycosphaerella brassicicola] J. Dept. Agric. South Austr. 55. 1952, 523.

Hurtig, I., Gefäßversuche mit kohlhernieanfälligen und -resistenten Cruziferen. Nachr.bl. dtsch. Pfl.schutzd., Berlin, NF. 6. 1952, 10—14, 6 Abb.

Jones, W., An unreported Phytophthora rot of Swede turnips. Phytopathology 42. 1952, 515 (Abstr.).

Kienzle, R. A., Clubroot of cabbage and related crops. Atlantic County [New Jersey] vocat. Bull. 31. 1952, nr. 4, p. 3—4.

Macfarlane, I., Factors affecting the survival of Plasmodiophora brassicae Wor. in the soil and its assessment by a host test. Ann. appl. Biol. 39. 1952, 239—256, 3 fig.

Meyer, J. K., Practijkervaring met de bestrijding van knolvoet. [Plasmodiophora brassicae] Maandbl. Landbouwvoorl.dienst, 's-Gravenhage, 9. 1952, 311—314.

Nilsson, L., Några försök med kålmögel. [Peronospora brassicae] Växtskyddsnotiser, Stockholm, 16. 1952, 74—79.

Odland, M. L., and **Noll, C. J.,** Pennvalley cabbage, a new yellows resistant variety. Pennsylv. agric. Exp. Stat. Progr. Rept. 84. 1952, 4 p.

Pimenova, A. S., (Bacterial rot of cabbage and its control.) Sad i Ogorod (Orchard and Garden) 8. 1952, 58—60.

Rohde, G., Kohlhernie und Bor. Dtsch. Landw. 3. 1952, 642—646, 7 Abb.

Schrödter, H., Untersuchungen über die Wirkung einer Windschutzpflanzung auf den Sporenflug und das Auftreten der Alternaria-Schwärze an Kohlsamenträgern. Angew. Meteorol. 1. 1952, 154—158, 2 Abb.

Stoll, K., Die Kohlschwärze. Entstehung, Schadwirkung und Bekämpfung. [Alternaria] Nachr.bl. dtsch. Pfl.schutzd., Berlin, NF. 6. 1952, 81—90, 8 Abb.

Wingrave, E. G., False club root [Olpidium brassicae] of crucifers. Austr. Plant Dis. Recorder 4. 1952, 8.

Yale, J. W., and **Vaughan, E. K.,** Relative importance of seed and soil borne infection in damping-off of garden beets. Phytopathology 42. 1952, 520 (Abstr.).

Pennvalley late cabbage being bred especially for yellows resistance. Pennsylv. agric. Exp. Stat. Bull. 553 (Suppl. 1). 1952, 4.

Unkraut
Weeds — Mauvaises herbes

Fallis, K. E., Possibilities of chemical weed control in turnips. Ontario Crop Improvem. Assoc. (Potato Sect.) Addr., Proc. Ann. Meetg. 15. 1952, 185—187.

Havis, J. R., Comments on selective herbicides for kale and broccoli. Weeds, New York, 1. 1952, 189.

Tierische Feinde
Animal parasites — Parasites animaux

Ahlberg, O., (Hexachloride preparations against the cabbage maggot [Hylemyia brassicae] and the carrot rust fly [Psila rosae].) Svensk Jordbr.forskn., Stockholm, 1952, 176.

Barth, E., Kohlanbauer, achtet auf die Kohlfliege! Württ. Wochenbl. Landw. 119. 1952, 387, 631.

Birk, L. A., and **Oughton, J. G.,** Parathion residues on swede turnips. Sci. Agric., Ottawa, 32. 1952, 52—56.

Blunck, H., Zur Kenntnis der Hyperparasiten von Pieris brassicae L. 4. Beitrag: Gelis cf. transfuga Först. 5. Beitrag: Hemiteles simillimus sulcatus, die Metarmorphose. 6. Beitrag: Gelis corruptor Först. und Gelis faunus Först. Ztschr. angew. Ent. 33. 1952, 217—267, 26 Abb.; 421—459, 43 Abb.; Beitr. Ent., Berlin, 2. 1952, 94—109, 3 Abb.

Böttcher, H., Bekämpfung von Kohlfliege und Drehherzmade mit modernen Insektengiften. [Chortophila brassicae, Contarinia nasturtii Kief.] Nachr.bl. dtsch. Pfl.schutzd., Berlin, NF. 6. 1952, 92—94.

Bonnemaison, L., Morphologie et biologie de la punaise ornée du chou (Eurydema ventralis Kol.). Ann. Épiphyties, Paris, 3. 1952, 127—272, 109 fig.

Bonnemaison, L., et **Missonnier, J.,** Essais de traitements contre les mouches du chou. [Hylemyia brassicae] Compt. rend. Acad. Agric. France 39. 1952, 581—583.

Bruins, G. W., (The cabbage curculio (Ceuthorrhynchus rapae Gyll.) in cabbage plants.) Groenten en Fruit 7. 1952, 988—989.

Buhl, C., Der große Kohltriebrüßler (Ceuthorrhynchus napi Gyll.), ein bisher im Glückstädter Gemüseanbaugebiet unbekannter Schädling. Ztschr. Pfl.krankh. 59. 1952, 326—334, 3 Abb.

Coutin, R., Bases scientifiques et organisation d'un avertissement sur la cécidomyie du chou-fleur aux Pays-Bas. Phytoma, Paris, 5. 1952, nr. 39, p. 11—12, 2 fig.

Crowell, H. H., Cabbage seedpod weevil control with parathion. J. econ. Ent. 45. 1952, 545—546.

Dixon, S. E., The anatomy and histology of the digestive tract of Hylemyia brassicae (Bouché) (Diptera: Anthomyiidae). Ontario ent. Soc. Ann. Rept. 82 (1951). 1952, 47—60.

Empson, D. W., Survey of cabbage aphid populations on brussels sprouts, 1946—51. Plant Path., London, 1. 1952, 35—38.

Endrigkeit, A., Versuche zur vorbeugenden Kohlfliegenbekämpfung bei Kohlsetzlingen durch Wurzelbegiftung mit Schwermetallverbindungen und Kontaktinsektiziden. [Chortophila brassicae] Ztschr. Pfl.krankh. 59. 1952, 209—220.

Endrigkeit, A., Weitere Versuche zur vorbeugenden Bekämpfung der Kohlfliege (Chortophila brassicae Bché.) bei Kohlsetzlingen mit Kontaktinsektiziden im Wurzeltauch- und Saatbeetbegießungsverfahren. Ztschr. Pfl.krankh. 59. 1952, 248—255.

Gardiner, B. O. C., Wasps attacking Pieris brassicae L. Ent. Rec., J. Variation 64. 1952, 355.

Großmann, Kohlfliege schon jetzt bekämpfen! Mitt.-bl. Landesverb. Gartenbau, Landw. Berlin 2. 1952, 39.

Hahmann, K., und **Müller, W. K.,** Zur Dauerwirkung der Kontaktinsektizide bei der Kohlfliegenbekämpfung. [Chortophila brassicae Bouché] Nachr.bl. dtsch. Pfl.schutzd., Braunschweig, 4. 1952, 51—55, 1 Abb.

Hervey, G. E. R., and **Vittum, M. T.,** Insect control increases cabbage yields-checks bursting. Farm Res. (New York State Stat.) 18. 1952, nr. 3, p. 16.

Hillemann, H., Neuzeitliche Kohlfliegenbekämpfung. Gartenwelt 52. 1952, 67—68, 4 Abb.

Klinkowski, M., Die Bekämpfung der Kohlfliege mit Hexa-Mitteln. Dtsch. Landw. 3. 1952, 254—258, 11 Abb.

McEwen, F. L., Evidence of resistant cabbage worms in Wisconsin. [Pieris rapae resistant to DDT] Proc. amer. Assoc. econ. Entomologists, North Centr. States Br., 7. 1952, 64.

McEwen, F. L., and **Chapman, R. K.,** Imported cabbage worm resistance to insecticides. J. econ. Ent. 45. 1952, 717—722.

Matthewman, W. G., Harcourt, D. G., and **Perron, J. P.,** Timing of DDT applications for control of caterpillars on cabbage. Canad. Entomologist 84. 1952, 346—352.

Mercier, J., La mouche du chou (Chortophila [i. e. Hylemyia] brassicae Bouché). Courrier hortic., Bruxelles, 14. 1952, 328—329.

Miles, M., Further observations on the biology of the cabbage root fly. Erioischia brassicae Bché. Ann. appl. Biol. 39. 1952, 385—391.

Miles, M., Where calomel is still the best. [Hylemyia brassicae] Grower, London, 37. 1952, 800—801.

Mitchener, A. V., Aldrin, DDT, Dieldrin and other insecticides for control of imported cabbage worm. J. econ. Ent. 45. 1952, 136—137.

Moreton, B. D., and **Light, W. I. St. G.,** Control of cabbage root fly with BHC and tar oil wash. [Erioischia brassicae] Plant Path., London, 1. 1952, 121.

Oughton, J., A study of turnip root maggots in Ontario. [Hylemyia brassicae, H. trichodactyla and H. cilicrura as pests of rutabagas] Ontario ent. Soc. Ann. Rept. 82 (1951). 1952, 77—84.

Raski, D. J., The first record of the Brassica-root nematode in the United States. [Heterodera cruciferae] Plant Dis. Reptr. 36. 1952, 438—439.

Reid jr., W. J., and **Bare, C. O.,** Seasonal populations of cabbage caterpillars in the Charleston, S. C., area. J. econ. Ent. 45. 1952, 695—699, 1 fig.

Reid jr., W. J., and **Cuthbert jr., F. P.,** Value of auxiliary materials in rotenone and pyrethrum insecticides for control of cabbage caterpillars. US Dept. Agric. Publ. E—834. 1952, 24 p.

Risbec, J., Contribution à l'étude de Ceuthorrhynchus assimilis Payk., charançon des siliques du colza. Rev. Path. vég., Ent. agric. France 31. 1952, 179—180.

Risbec, J., Observations sur Dasyneura brassicae Winn. (Dipt. Cecidomyidae). Rev. Path. vég., Ent. agric. France 31. 1952, 195—198.

Ristich, S. S., and **Herron, J. C.,** Some notes on the biology and the control of the cabbage curculio Ceuthorrhynchus rapae Gyll. in Ohio. Proc. amer. Assoc. econ. Entomologists, North Centr. States Br., 7. 1952, 66—67.

Schmidt, H., Über die Wirkung einer Beimischung von Hexa-Stäubemitteln zur Anzuchterde bei Blumenkohlpflanzen zur Bekämpfung der Kohlfliege. Nachr.bl. dtsch. Pfl.schutzd., Berlin, NF. 6. 1952, 8—10.

Steudel, W., Untersuchungen zur anholocyclischen Überwinterung der grünen Pfirsichlaus (Myzodes persicae Sulz.) an Brassicaceen. Mitt. Biol. Zentralanst. H. 73. 1952, 32 S., 8 Abb.

Stolze, K. V., und **Hillemann, H.,** Welche Pflanzenschutzmittel können bei der Kohlfliegenbekämpfung durch Vermischen mit der Topferde Verwendung finden? Anz. Schädl.kunde 25. 1952, 119—122.

Van den Brande, J., et **Verbeke, J.,** Observations sur la mouche des choux et ses parasites. Trans. IXth int. Congr. Ent., Amsterdam, 1 (1951). 1952, 646.

Vittum, M. T., and **Hervey, G. E. R.,** Relation of Marion cabbage yield and bursting to rates of application and sources of fertilizer nutrients and insect control. New York State agric. Exp. Stat. Bull. nr. 750. 1952, 16 p., 3 fig.

Wagner, Über Schadbild und Bekämpfung des großen Kohltrieb- oder Rapsstengelrüßlers (Ceutorrhynchus napi Gyll.) an Kohlgewächsen. Pflanzenschutz, München, 4. 1952, 81—82, 1 Abb.

Wahlin, B., Om kålbladlusens spridning i oljeväxtfält. [Brevicoryne brassicae] Växtskyddsnotiser, Stockholm, 16. 1952, 1—6, 1 fig.

Wene, G. P., and **White, A. N.,** Toxicity of new insecticides to cabbage aphids. J. econ. Ent. 45. 1952, 118—120, 1 fig.

Wright, D. W., Contributions to the bionomics and control of the cabbage root fly (Erioischia brassicae Bché.). Ann. Rept. nat. Veg. Res. Stat. Wellesbourne 1951. 1952, 10—20.

Wright, D. W., Soil insecticides for the control of cabbage root fly (Erioischia brassicae Bché.) and carrot fly (Psila rosae Fab.). 13th int. hortic. Congr., London, Mimeogr. Pap. 1952, 6 p.

Aldrin for the control of the cauliflower weevil (Rhytidoderes plicatus.ol.). Agric. Bull. (Shell) ADB. 341/Fm 25. 1952, 1 p.

Dosiergerät »Potsdam« für die Kohlfliegenbekämpfung. Gartenwelt 52. 1952, 117, 2 Abb.

Neue Kohlfliegenbekämpfung. Richtige Sortenwahl entscheidend. Bauernbl. Schlesw.-Holst. 6./102. 1952, 550.

The turnip fly. (Dept. Agric.), Dublin, Leafl. nr. 9. 1952, 2 p., 1 fig.

Virus

Berkeley, G. H., and **Weintraub, M.,** Turnip mosaic. Phytopathology 42. 1952, 258—260, 1 fig.

Berkeley, G. H., and **Weintraub, M.,** Turnip mosaic in Ontario. Phytopathology 42. 1952, 2—3 (Abstr.).

Broadbent, L., Barrier crops may help to reduce cauliflower mosaic. Grower, [London], 38. 1952, 1140—1142.

Fry, P. R., Cauliflower mosaic: a virus disease of Brassicas. New Zealand J. Agric. 85. 1952, 507—508, 3 fig.

Huertos, M. R., Estudio de una nueva estirpe de Brassica virus L. y sus inclusiones intracelulares. Microbiol. españ., Madrid, 5. 1952, 255—259, 1 fig.

McClean, A. P. D., Cauliflower mosaic and cabbage black ringspot, two virus diseases that attack cauliflower and other plants. Farming South Afr. 27. 1952, 251—253, 7 fig.

McLean, D. M., Occurrence of yellow-net virus disease in table beet seed plants in Northwestern Washington. Plant. Dis. Reptr. 36. 1952, 241—242.

McLean, D. M., Tests for the occurrence of virus yellows in table beet seed plants in northwestern Washington. Phytopathology 42. 1952, 516 (Abstr.).

Natti, J. J., Cabbage viruses in New York State. Farm Res. [New York State Stat.] 18. 1952, nr. 4, p. 7.

Pound, G. S., Relation of air temperature and virus concentration to mosaic resistance in cabbage. [Brassica oleracea var. capitata] Phytopathology 42. 1952, 83—88, 2 fig.

Roland, G., Étude de deux viroses du navet: la mosaïque et la jaunisse. [Brassica virus 1 et 5] Parasitica, Gembloux, 8. 1952, 97—111, 9 fig.

Van Hoof, H. A., Stip in kool, een virusziekte. (»Stip« (specks) in cabbage, a virus disease.) Meded. Dir. Tuinbouw 15. 1952, 727—742, 6 fig. (Inst. plantenziektenkdg. Onderz., Wageningen, Meded. nr. 51).

Virus diseases in New York cabbage. Seed World 71. 1952, 46—47.

Capsicum

Boswell, V. R., Doolittle, S. P., and **Pultz, L. M.,** Pepper production, disease and insect control. US Dept. Agric. Farmers' Bull. 2051. 1952, 30 p., fig.

Do Amaral, J. F., Requeima do pimentão. (Chilli blight.) [Phytophthora capsici] Biológico, São Paulo, 18. 1952, 160—161, 1 fig.

Doolittle, S. P., and **Zaumeyer, W. J.,** A ring spot disease of peppers caused by strains of cucumber mosaic virus from pepper and alfalfa. Phytopathology 42. 1952, 7 (Abstr.).

Govi, G., (End rot of peppers.) Inform. Fitopat., Bologna, 2. 1952, 113—115.

Katsura, K., On the influence of temperature to the germination of zoosporangia of Phytophthora capsici Leonian. Saikyo Univ. Fac. Agric. sci. Rept. 2. 1952, 5—9.

Kendrick jr., J. B., and **Middleton, J. T.,** Influence of variety, temperature, and fungus strains upon Verticillium wilt of pepper. [V. albo-atrum] Phytopathology 42. 1952, 515 (Abstr.).

Kovachevsky, I. Ch., Die Buntblättrigkeit der Paprikapflanze (Capsicum annuum) (Medicago virus 2 K. Smith var. typicum Black u. Price). Vorl. Mitt. Ztschr. Pfl.krankh. 52. 1952, 533—540, 7 Abb.

McKeen, C. D., Aphanomyces cladogamus Drech., a cause of damping-off in peppers and certain other vegetables. Canad. J. Bot. 30. 1952, 701—709, fig.

McKeen, C. D., A species of Aphanomyces causing damping-off in peppers and certain other vegetables. Phytopathology 42. 1952, 14 (Abstr.).

McKeen, C. D., Tobacco etch on peppers in Southwestern Ontario. Proc. canad. phytopath. Soc. nr. 20. 1952, 19 (Abstr.).

Marshall, E., and **King, T. H.,** The importance of the stylar region of the pepper fruit in the control of fruit disease. [Fusarium, Alternaria] Phytopathology 42. 1952, 7 (Abstr.).

Maseroli, E. N., (Root rot of peppers.) Avvenire agric., Milano, 60. 1952, 52—53.

Miller, J. H., and **Taylor, J.,** Cladosporium leaf spot of pepper in Georgia. [Cladosporium capsici] Plant Dis. Reptr. 36. 1952, 440.

Porter, D. R., and **Younkin, S. G.,** Introducing the new mosaic-resistant Yolo Wonder pepper. Seed World 70. 1952, nr. 3, p. 8, 50.

Porter, D. R., and **Younkin, S. G.,** Yolo wonder pepper. [Capsicum fastigiatum] Seed World 70. 1952, nr. 3, p. 8, 50, 4 fig.

Ramsey, G. B., and **Heiberg, B. C.,** Cladosporium rot of peppers. Plant Dis. Reptr. 36. 1952, 481—482, 1 fig.

Citrullus, Cucumis, Cucurbita

Anderson, C. W., The distribution of cucurbit viruses in central Florida. Plant Dis. Reptr. 36. 1952, 377—379.

Anderson, C. W., Viruses of cucurbits in central Florida. Proc. Florida State hortic. Soc. 64 (1951). 1952, 109—112.

Atkins jr., J. G., and **Horn, N. L.,** A simple greenhouse method for evaluating fungicides for control of cucumber anthracnose. [Colletotrichum lagenarium] Plant Dis. Reptr. 36. 1952, 270—272, 1 fig.

Barnes, W. C., and **Epps, W. M.,** Two types of anthracnose resistance in cucumbers. [Colletotrichum lagenarium] Plant Dis. Reptr. 36. 1952, 479—480.

Cox, C. E., and **Weaver, L. O.,** Spray or dust to control diseases of cantaloupes, cucumbers and watermelons. Maryland agric. Coll. Ext. Fact Sheet 50. 1952, 2 p.

Crosier, W. F., Hot water treatment of cucurbit seeds to control seed-borne organisms [control of Mycosphaerella citrullina on cucurbits] News Letter Assoc. off. Seed Analysts North Amer. 26. 1952, 36—37.

Crowell, H. H., Controlling cutworms and spotted cucumber beetle (Diabrotica) larvae. Proc. Oregon State hortic. Soc. 67. 1952, 129—130.

Delver, P., and **Rossehoom, M. G.,** (Graft chlorosis, a new problem in cucumber culture.) Groenten en Fruit 8. 1952, 167.

De Payrebrune, G., Blatterkrankungen der Gurken, mit besonderer Berücksichtigung der Freilandkulturen. Württ. Wochenbl. Landw. 119. 1952, 742—743.

Ditman, L. P., and **Todd, H. S.,** New insecticides and cucumber production. Canning Trade, Baltimore, 74. 1952, nr. 40, p. 7—8.

Eide, C. J., and **Makila, A.,** An isolate of Fusarium with unusual virulence for the resistant Iroquois muskmelon. [Fusarium bulbigenum var. niveum] Phytopathology 42. 1952, 465.

Emge, R. G., and **Fulton, J. P.,** Control of diseases of watermelons, cantaloupes, cucumbers, squash. Arkansas agric. Coll. Ext. Leafl. nr. 152. 1952, 8 p.

Epps, W. M., and **Barnes, W. C.,** The increased susceptibility of the palmetto cucumber to downy mildew in South Carolina. Plant Dis. Reptr. 36. 1952, 14—15.

Flanders, St. E., A method for transferring infestations of purple scale. J. econ. Ent. 45. 1952, 891.

Freitag, J. H., Seven virus diseases of cucurbits in California. Phytopathology 42. 1952, 8 (Abstr.).

Fujikawa, T., (Studies on the cucumber Phytophthora blight. 9, 11.) [Ph. parasitica] Kyushu Noji Shikenjo 9. 1952, 23—24; 10. 1952, 151—152.

Gassner, J. K., »Entchlorose« — neue Hausgurkenkrankheit. Gartenwelt 52. 1952, 368.

Godfrey, G. H., Cantaloupe powdery mildew control with dinitro capryl phenyl crotonate. [Erysiphe cichoracearum, Pseudoperonospora cubensis] Phytopathology 42. 1952, 335—337.

Godfrey, G. H., Foliage diseases of cucurbits in the lower Rio Grande Valley of Texas in 1951. Plant Dis. Reptr. 36. 1952, 69.

Gorlenko, M. W., and **Izrailjson, W. F.,** (Use of grafting method to combat (Fusarium) rot of the roots of melons.) Sad i Ogorod (Orchard and Garden) 8. 1952, 70—71.

Hahmann, K., und **Müller, W. K.,** Zur Bekämpfung des getüpfelten Tausendfußes. [Blaniulus guttulatus an Gurken] Nachr.bl. dtsch. Pfl.schutzd., Braunschweig, 4. 1952, 22—24, 3 Abb.

Harries, C. S., Effects of certain insecticides and related chemicals on photosynthesis in cucumbers and beans. Proc. amer. Soc. hortic. Sci. 60. 1952, 335—340.

Hills, O. A., and **Taylor, E. A.,** Control of cantaloup insects in the Salt River Valley of Arizona. US Bur. Ent., Plant Quar. EC—22. 1952, 8 p.

Itie, G., Las enfermedades de la sandia. Tierra, México, 7. 1952, 826—827, 852—854.

Jain, A. C., Control of Pythium fruit-rot of cucurbits in Madhya Pradesh. [P. aphanidermatum] Nagpur agric. Coll. Mag. 26. 1952, nr. 1—4, p. 4—5.

Katsura, K., (Phytophthora rot of cucurbits.) J. Plant Prot., Tokyo, 37/38. 1952, 322—325.

Keener, P. D., Virus diseases and interesting virus-like symptoms in melons in Arizona — 1950—1951. Plant Dis. Reptr. 36. 1952, 128—131, 4 fig.

Knowlton, G. G., Controlling the squash bug [Anasa tristis]. Utah State agric. Coll. Ext. Circ. 164. 1952, 2 p.

McKeen, C. D., An aberrant strain of the black rot fungus causing fruit and stem rot of greenhouse cucumbers in Ontario. Phytopathology 42. 1952, 14 (Abstr.).

McKeen, C. D., A black rot disease of greenhouse cucumbers in Southwestern Ontario. Proc. canad. phytopath. Soc. nr. 20. 1952, 18—19 (Abstr.).

McKeen, C. D., Observations on the occurrence and control of grey mould on greenhouse cucumbers. Sci. Agric., Ottawa, 32. 1952, 670—676, 2 fig.

Michelbacher, A. E., Middlekauff, W. W., and Bacon, O. G., Mites on melons in Northern California. J. econ. Ent. 45. 1952, 365—370.

Michelbacher, A. E., Middlekauff, W. [W.], Bacon, O. G., and Glover, L. C., Aldrin, dieldrin and heptachlor to control California melon insects. J. econ. Ent. 45. 1952, 470—475.

Miller, J. J., A study of the distribution of Fusarium wilt of muskmelons and watermelons in Southwestern Ontario. Proc. canad. phytopath. Soc. nr. 20. 1952, 19 (Abstr.).

Naito, T., The mycoflora of southern Kiusiu. IV. [Spaerulina cucurbitae n. sp. on Cucurbita moschata var. toonas] Sci. Rept. Kagoshima Univ. nr. 1. 1952, 71—81, 11 fig.

Norton, D. C., Testing fungicides on squash, 1952. [powdery mildew] Texas agric. Exp. Stat. Progr. Rept. 1945. 1952, 2 p.

Owen, J. H., Pathogenicity of an undescribed Sclerotium sp. [on watermelon] Phytopathology 42. 1952, 286 (Abstr.).

Parris, G. K., Diseases of watermelons. Florida agric. Exp. Stat. Bull. 491. 1952, 48 p.

Read, W. H., The control of cucumber mildew (Erysiphe cichoracearum). J. Tomato, Cucumber Marktg. Board (Engl.) 1. 1952, nr. 6, p. 21—22, 25—26.

Sill jr., W. H., and Walker, J. C., A virus inhibitor in cucumber in relation to mosaic resistance. Phytopathology 42. 1952, 349—352.

Sökmen, Y., Hiyar fidelerinde Bacteri hastalïği. (Bakterienkrankheit bei Gurkenpflänzchen.) Tomurcuk, Istanbul, 1952, nr. 3, p. 6.

Stoner, W. N., Greenhouse tests of the resistance of Ohio MR 17 and Niagara cucumbers to the southern strain of cucumber mosaic virus. Proc. Florida State hortic. Soc. 65. 1952, 165—169.

Stubbs, L. L., Cucumber mosaic virus. Austr. Plant Dis. Recorder 4. 1952, 30.

Takimoto, K., (Black spot disease of watermelon.) J. Plant Prot., Tokyo, 37/38. 1952, 320—321.

Taylor, J. C., Hawthorne, P. L., and Webb, R. E., Calhoun Sweet, a wilt resistant watermelon. [Fusarium niveum] Proc. Assoc. south. agric. Workers 49. 1952, 108 (Abstr.).

Tinoco Corona, L., Breve estudio del pulgon [Aphis gossypii] del melon. Fitófilo, San Jacinto (México), 6. 1952, nr. 5, p. 9—18.

Tjallingii, F., Bestrijding van kiemplantenziekten bij augurken. (Control of seedling diseases of cucumbers.) Groenten en Fruit 7. 1952, 735—738.

Tjallingii, F., Onderzoekingen over de mozaiekziekte van de augurk (Cucumis sativus L.). (Investigations on the mosaic disease of gherkin (Cucumis sativus L.).) Meded. Inst. plantenziektenkdg. Onderz., Wageningen, nr. 47. 1952, 117 p., 12 fig.

Togliani, F., Contributo alla conoscenza di uno Sferrossidale del genere Peyronellaea. (A contribution to the knowledge of a sphaeropsidal fungus of the genus Peyronellaea.) Ann. Sperim. agr., Roma, 6 (n. ser.). 1952, 81—94, 7 fig.

Uozumi, T., and Yoshii, H., (Some observations on the mildew fungus affecting the cucurbitaceous plants.) [Erysiphe, Sphaerotheca] Ann. phytopath. Soc. Japan 16. 1952, 123—126, 3 fig.

Van Koot, Ij., en Camfferman, J., Groeistofbespuiting ter verbetering van vruchtzetting bij tomaat, meloen, aardbei. Tuinbouwgids, Den Haag, 1952, 340.

Watanabe, T., and Tamura, M., (Studies on the perfect stage of the causal fungus of the anthracnose of cucumber.) [Colletotrichum] Ann. phytopath. Soc. Japan 16. 1952, 137—140, 3 fig.

Wei, C. T., Walker, J. C., and Scheffer, R. P., Plant nutrition in relation to disease development. VII. Cucurbit wilts. [Fusarium] Amer. J. Bot. 39. 1952, 245—249.

Welte, E., Versuche zur Bekämpfung der Gurkenwelke durch verschiedene Pfropfverfahren. [Fusarium elegans, F. martiella] Gemüsebau 15. 1952, 147—152.

Wiles, A. B., and Walker, J. C., Epidemiology and control of angular leaf spot of cucumber. [Pseudomonas lachrymans] Phytopathology 42. 1952, 105—108.

Wilkinson, R. E., Ringspot of winter squash caused by the tomato ringspot virus. Phytopathology 42. 1952, 23 (Abstr.).

Wilson, J. D., and Sleesman, J. P., The control of cucumber and muskmelon diseases and insects. Proc. Ohio Veg., Potato Growers Assoc. 37. 1952, 142, 144, 146, 148, 150, 152—156, 158—162.

Daucus carota

Ahlberg, O., (Hexachloride preparations against the cabbage maggot [Hylemyia brassicae] and the carrot rust fly [Psila rosae].) Svensk Jordbr.forskn., Stockholm, 1952, 176.

Bakker, M., Resultaten van de proeven ter bestrijding van de Phomopsisziekte in zaadwortelen. (Control of the Phomopsis disease in seedumbles of carrot.) [Ph. dauci on Daucus carota] Meded. Dir. Tuinbouw, 's-Gravenhage, 15. 1952, 879—883, 3 fig. (Inst. plantenziektenkdg. Onderz., Wageningen, Meded. nr. 54).

Cole, C. E., Dorey, A. C., and **McAlpin, D. M.,** Weed control in carrot crops. Grower [Adelaide], 6. 1952, nr. 12, p. 26, 28—29, 31.

Essig, E. O., A change in the nomenclature of carrot and celery aphids. J. econ. Ent. 45. 1952, 752.

Fritzsche, R., Schädliche und nützliche Wanzenarten an Möhren (Daucus carota L. ssp. sativa). Nachr.bl. dtsch. Pfl.schutzd., Berlin, NF. 6. 1952, 228—229, 2 Abb.

Grogan, R. G., and **Kendrick, J. B.,** Carrot root scab — a disease complex. [Stemphylium radicinum] Phytopathology 42. 1952, 9—10 (Abstr.).

Grogan, R. G., and **Snyder, W. C.,** The occurrence and pathological effects of Stemphylium radicinum on carrots in California. Phytopathology 42. 1952, 215—218, 3 fig.

Hansson, O. V., (Weedkillers in the carrot bed.) Ársrit Íslenska Garðyrkjufélag 1952, 23—28.

Keyder, S., Havuç sineği [Psila rosae]. (Die Möhrenfliege.) Tomurcuk, Istanbul, 1952, nr. 2, p. 7.

Osnitskaja, E. A., and **Osipowa, N. I.,** (Phomosis of carrots.) [Phoma rostrupii] Sad i Ogorod (Orchard and Garden) 1952, nr. 9, p. 60—62, 2 fig.

Pauck, P., und **Koch, F. W.,** Über Versuche zur Bekämpfung der Möhrenfliege. Nachr.bl. dtsch. Pfl.-schutzd., Braunschweig, 4. 1952, 113—116.

Rusakowa, A. A., and **Raskin, S. E.,** (New control measure for black and white rot on seed carrots.) Dokl. Vsesoiuzn. Akad. Sel'skohoz. Nauk im. V. I. Lenina (Proc. Lenin Acad. agric. Sci.) 19. 1952, nr. 12, p. 56—59.

Shadbolt, C. A., and **Holm, L. G.,** The effect of weed competition on the growth and development of carrots. Proc. North Centr. Weed Control Conf. 9. 1952, 69—70.

Stubbs, L. L., Further host range and transmission studies with a virus disease of carrot endemic in Australia. Austr. J. sci. Res. (ser. B) 5. 1952, 399—408.

Sturgess, O. W., Carrot motley dwarf. Austr. Plant Dis. Recorder 4. 1952, 15.

Wright, D. W., Soil insecticides for the control of cabbage root fly (Erioischia brassicae Bché.) and carrot fly (Psila rosae Fab.). Mimeogr. Pap. 13th int. hortic. Congr., London, 1952, 6.

Ukrudtsbekaempelse i gulerødder, selleri m. fl. Stat. Forsøgsvirks., Plantekult., København, Meddel. 451. 1952, 2. ed., 4 p.

Lactuca sativa

Basile, R., Associazione di Sclerotinia sp. e Pythium sp. in un marciume dell'insalata (Lactuca sativa). (Association of Sclerotinia sp. and Pythium sp. in a rot of salad (Lactuca sativa).) Ann. Sperim. agr., Roma, 6 (n. ser.). 1952, 207—212, 6 fig.

Bellegueule, J., Méthode de lutte contre le meunier [Bremia lactucae] de la laitue. Rev. hortic., Paris, 124. 1952, 691—692.

Bremer, H., Salatmosaik. Ein Sammelbericht. Ztschr. Pfl.krankh. 59. 1952, 275—277.

Bremer, H., Warum versagt der Salat? Rhein. Monatsschr. Gemüse-, Obst-, Gartenbau 40. 1952, 234.

Cohen, M., Variation in mode of host penetration by lettuce downy mildew. [Bremia lactucae] Phytopathology 42. 1952, 512—513 (Abstr.).

Friedman, B. A., Soft rot of lettuce and escarole caused by Pseudomonas marginalis. Phytopathology 42. 1952, 112 (Abstr.).

Fry, P. R., Lettuce mosaic. New Zealand J. Sci., Technol. (A) 33. 1952, nr. 5, p. 52—63, 4 fig.

Fry, P. R., Note on occurrence of a tobacco-necrosis virus in roots of lettuce showing big-vein. New Zealand J. Sci., Technol. (A) 34. 1952, 224—225, 1 fig.

Grainger, J., The rapid detection of high salt concentrations in soil likely to damage lettuce plants. J. Sci. Food, Agric., London, 3. 1952, 173—175.

Grogan, R. G., Welch, J. E., and **Bardin, R.,** Common lettuce mosaic and its control by the use of mosaic-free seed. Phytopathology 42. 1952, 573—578, 1 fig.

Harvey, H. L., Lettuce mosaic. J. Dept. Agric. West Austr. (ser. 3) 1. 1952, p. 667, 669, 1 fig.

Hoffman, J. R., Leaf hopper control to prevent the spread of the virus disease aster yellows in commercial lettuce production. Part II. Michigan agric. Exp. Stat. Quart. Bull. 34. 1952, 262—265.

Jacks, H., Seed disinfection. II. Effect of various chemicals on the emergence of lettuce and pea seedlings. New Zealand J. Sci., Technol. (A) 34. 1952, 122—125.

Krause, W. G. C., Tipburn on early lettuce. Commonw. Grower 1952, 1043—1044.

Last, F. T., The use of tetra- and penta-chloronitrobenzenes in the control of Botrytis disease and Rhizoctonia attack of lettuce. Ann. appl. Biol. 39. 1952, 557—568, 1 fig.

Mercier, J., La pourriture grise de la salade. Courrier hortic., Bruxelles, 14. 1952, 154—155.

Ødelien, M., og **Sorteberg, A.,** Molybdenmangel hos salat i karforsøk. (Molybdenum deficiency in lettuce in pot experiments.) Forskn., Forsøk Landbr., Oslo, 3. 1952, nr. 1, p. 69—74, 2 fig.

Pettinari, C., Phyllosticta multiformis n.sp. su foglie di Lactuca scariola L. (Phyllosticta multiformis n.sp. on leaves of Lactuca scariola L.) Ann. Sperim. agr., Roma, 6 (n. ser.). 1952, 119—125, 14 fig.

Plant, W., The control of molybdenum deficiency in lettuce under field conditions. Ann. Rept. agric., hortic. Res. Stat., Long Ashton (Bristol), 1951. 1952, 113—115.

Poole, C. F., Lettuce improvement in Hawaii. [disease resistance] Proc. amer. Soc. hortic. Sci. 60. 1952, 397—400.

Purdy jr., L. H., and **Grogan, R. G.,** Infection of lettuce by Sclerotinia sclerotiorum (Lib.) de Bary. Phytopathology 42. 1952, 518 (Abstr.).

Quantz, L., Die Mosaikkrankheit des Salats, eine samenübertragbare Virose. Saatgut-Wirtschaft, Stuttgart, 4. 1952, 279, 1 Abb.

Snyder, W. C., Bardin, R., and **Grogan, R. G.,** Powdery mildew of lettuce reappears in Salinas valley. [Erysiphe cichoracearum D. C., on Lactuca sativa L.] Plant Dis. Reptr. 36. 1952, 321—322.

Stubbs, L. L., Lettuce mosaic virus in Victoria. Austr. Plant Dis. Recorder 4. 1952, 32.

Van der Kloes, L. J. J., Het randen van sla. Meded. Dir. Tuinbouw 15. 1952, 125—139.

Wilkinson, R. E., and **Hirsch, U.,** Local lesion hosts for the lettuce mosaic virus. [Marmor lactucae] Phytopathology 42. 1952, 478.

Wingrave, E. G., Some diseases of lettuce. [Bremia lactucae, Botrytis cinerea] Tasmanian J. Agric. 23. 1952, 302—307, 5 fig.

Outdoor salad crops. [pests and diseases] Minist. Agric., Fish., London, Bull. 1952, nr. 55, 52 p., 8 tab.

Research work and workers. [disease-resistant lettuce »Alaska«] Seed World 71. 1952, nr. 8, p. 40—41.

Lycopersicon esculentum

Allgemeiner Teil
General part — Partie générale

Benlloch, M., El tomate canario y sus enfermedades. Agricultura, Madrid, 21. 1952, 120—122.

Bewley, W. F., The importance of clean seeds in the tomato industry. J. Tomato, Cucumber Marktg. Board 1. 1952, nr. 5, p. 11, 13—14.

Dimond, A. E., and **Waggoner, P. E.,** Biochemistry of the lycomarasmin-iron chelated complex. Phytopathology 42. 1952, 465 (Abstr.).

Elter, L., Maladies des tomates. Courrier hortic., Bruxelles, 14. 1952, 326—327.

Emge, R. G., and **Linn, M. B.,** Effect of spraying with zineb on the growth and zinc content of the tomato plant. [zinc dimethyl dithiocarbamate] Phytopathology 42. 1952, 133—136.

Evans, J. A., Manzate on tomatoes and potatoes. Food Packer, New York, 33. 1952, 40, 52, 54, 1 fig.

Juillet, A., et **Turquois, J.,** À propos du traitement des tomates par les hormones parthénocarpiques. Phytoma, Paris, 5. 1952, nr. 35, p. 6—8.

Kruijk, P. A., (Practical chemical disinfection of soils for tomatoes.) Groenten en Fruit 8. 1952, 87, 89.

Kruijk, P. A., (Present practice of steaming soil for tomatoes.) Groenten en Fruit 8. 1952, 85, 87.

Mendes, O., (Most serious diseases of our tomato plants.) Gaz. Agric., Moçambique, 4. 1952, 63—65.

Menis, Y., (Remarks on spraying tomatoes with a spraying apparatus.) Hassadeh, Tel-Aviv, 32. 1952, 228—229.

Riveros, J. E., La producción de tomate y papa; enfermedades que provocan su disminución. Chacra, Buenos Aires, 22. 1952, nr. 254, p. 24.

Schenk, P. J., (A couple of new (?) tomato diseases.) Cult. en Handel 18. 1952, 213—214.

Small, T., Tomatoes in Jersey. [diseases] Agriculture, J. Minist. Agric., London, 58. 1952, 576—579, 2 tab.

Van Koot, Ij., en **DeZeeuw, A.,** Kwaliteit van tomaten. Tuinbouwgids, Den Haag, 1952, 325—328, 6 fig.

Van Koot, Ij., en **Camfferman, J.,** Groeistofbespuiting ter verbetering van vruchtzetting bij tomaat, meloen, aardbei. Tuinbouwgids, Den Haag, 1952, 340.

Wheadon, E. A., Tomatoes in Guernsey. [controlling diseases and pests] Agriculture, J. Minist. Agric., London, 58. 1952, 580—583, 2 tab.

Nichtparasitäre Krankheiten
Diseases not caused by parasites
Maladies non parasitaires

Aberdeen, J. E. C., Investigations on the phytotoxicity of Bordeaux mixture to tomatoes. Queensland J. agric. Sci. 9. 1952, 1—40, 9 fig.

Baelus, S., (Deficiency diseases of tomatoes.) Tuinbouwberichten (flem.) 16. 1952, 133, 152.

Ciccarone, A., Le foglie »argentate« del pomodoro. (Silverleaf of tomato.) Boll. Staz. Pat. veg., Roma, 8 (1950). 1952, 193—205, 10 fig.

Govindan, P. R., Influence of zinc on tomato fruits. Curr. Sci., Bangalore, 21. 1952, 15—16.

Hitchcock, A. E., and **Zimmerman, P. W.,** Response of tomato plants to treatment with 2, 4-dichlorophenoxyacetic acid in combination with indoleacetic acid and certain other compounds. Contrib. Boyce Thompson Inst. 17. 1952, 35—55.

Howlett, F. S., Seedless tomatoes. Plants and Gard., New York, 8. 1952, 18—20.

Iwanowskaja, T. L., (Effect of 2, 4-dichlorophenoxyacetic acid on tomatoes.) Trudy Akad. Nauk SSSR, Inst. Genet., 19. 1952, 133—151.

Kelsheimer, E. G., The effect of certain non-phosphoric insecticides upon the germination of tomato seeds. J. Hyman & Comp. S 277. 1952, 8 p.

McNaught, K. J., and **Gdanitz, L. C.,** Magnesium deficiency in glasshouse tomatoes. New Zealand J. Sci., Technol. (A) 34. 1952, 82—91, 1 fig.

Montelaro, J., Hall, C. B., and **Jamison, F. S.,** Reduction of urea injury to tomato foliage by addition of magnesium sulfate to the spray solution. Proc. amer. Soc. hortic. Sci. 60. 1952, 286—288.

Moore, E. L., and **Thomas, W. O.,** Hormone spray helps produce fall tomatoes. Mississippi Farm Res. 15. 1952, nr. 8, p. 1, 8.

Nason, A., Effect of copper deficiency on isocitric dehydrogenase activity in tomato leaves. Proc. Fed. amer. Soc. exp. Biol. 11. 1952, 264.

Nason, A., Metabolism of micronutrient elements in higher plants. II. Effect of copper deficiency on the isocitric enzyme in tomato leaves. J. biol. Chem. 198. 1952, 643—653.

Nason, A., Oldewurtel, H. A., and **Propst, L. M.,** Role of micronutrient elements in the metabolism of higher plants. I. Changes in oxidative enzyme constitution of tomato leaves deficient in micronutrient elements. Arch. Biochem., Biophys., New York, 38. 1952, 1—13.

Nicholas, D. J. D., Some effects of metals in excess on crop plants grown in soil culture. III. Effects of cobalt, nickel and zinc on growth, metal and chlorophyll contents of tomato. Ann. Rept. agric., hortic. Res. Stat., Long Ashton (Bristol), 1951. 1952, 87—102.

Rhodes, A., The influence of the plant growth-regulator, 2-methyl-4-chlorophenoxyacetic acid, on the metabolism of carbohydrate, nitrogen and minerals in Solanum lycopersicum (tomato). J. exp. Bot. 3. 1952, 129—154.

Rick, C. M., The grafting relations of wilty dwarf, a new tomato mutant. Amer. Naturalist, Lancaster (Pa.), 86. 1952, 173—184.

Strømme, E., and **Falk, K.,** Effect of chemical soil disinfection on tomato root rot. Forskn., Forsøk Landbr., Oslo, 3. 1952, 77—92.

Strong, M. C., Effects of certain environmental conditions on the production of greenhouse tomatoes. Michigan agric. Exp. Stat. Quart. Bull. 35. 1952, 3—9.

Pflanzliche Feinde
Vegetal parasites — Parasites végétaux

Allison and **van Burgh, P.,** Relation of solanine content of tomato fruits to colorization by Colletotrichum phomoides. Phytopathology 42. 1952, 1 (Abstr.).

Bakker, M., Het kweken van tomatenrassen, resistent tegen de bladvlekkenziekte. (Breeding tomato varieties resistant to leaf mould, Cladosporium fulvum.) Zaadwereld (Nederland) 15. 1951, 270—271.

Bloom, J. R., Effect of nutritive sprays on the development of Fusarium wilt of tomato. Phytopathology 42. 1952, 3 (Abstr.).

Bonde, R., and **Murphy, E. F.,** Resistance of certain tomato varieties and crosses to late blight. Maine agric. Exp. Stat. Bull. nr. 497. 1952, 15 p., 1 fig.

Cannon, O. S., and **Waddoups, V.,** Loran Blood and VR Moscow, two new Verticillium wilt resistant tomatoes for Utah. Farm, Home Sci. (Utah Stat.) 13. 1952, 74—75.

Carilli, A., La »plaga« o »pellagra« del pomodoro nel Salernitano. (The »plaga« or »pellagra« of tomato in Salerno province.) Boll. Staz. Pat. veg., Roma, 8 (1950). 1952, 173—180, 3 fig.

Celino, M. S., and **Gottlieb, D.,** Control of bacterial wilt of tomatoes by Bacillus polymyxa. Phytopathology 42. 1952, 4 (Abstr.).

Ciccarone, A., (Problems of tomatoes with particular reference to Campania.) [fungus diseases] Giorn. agr., Roma, 62. 1952, 133—134.

Ciccarone, A., (Resistance to Sclerotium rolfsii, Sacc.?) [tomatoes] Italia agric. 89. 1952, 180—181.

Ciccarone, A., e **Carilli, A.,** Prove di lotta contro Alternaria porri (Ell.) Saw. f. sp. solani (E. et M. pro sp.) Neerg. in agro di Scafati (Salerno). (Field trials for the control of Alternaria porri (Ell.) Saw. f. sp. solani (E. and M. pro sp.) Neerg. in the territory of Scafati (Salerno).) Ann. Sperim. agr., Roma, 6 (n. ser.). 1952, 1077—1092, 7 fig.

Cronshey, J. F. H., Controls for tomato leaf mould. Grower, London, 38. 1952, 1086—1087.

Davis, B. H., Cause and control of tomato wilts. New Jersey agric. Exp. Stat. Circ. 548. 1952, 2 p.

De Andrade, A. C., Fungicidas modernos para controlar a requeima do tomateiro. (Modern fungicides for control of tomato late blight.) [Phytophthora infestans] Biológico, São Paulo, 18. 1952, 6—14.

De Andrade, A. C., (Tomato blight [Phytophthora infestans] in the valley of the Paraiba.) Biológico, São Paulo, 18. 1952, 35.

Dimond, A. E., Davis, D., Chapman, R. A., and **Stoddard, E. M.,** Plant chemotherapy as evaluated by the Fusarium wilt assay on tomatoes. Connecticut (State) agric. Exp. Stat. Bull. 447. 1952, 82 p.

Doepel, R. F., Black spot of tomatoes. Austr. Plant Dis. Recorder 4. 1952, 44—45.

Dye, D. W., Control of bacterial canker of tomatoes (Corynebacterium michiganense (Erw. Smith) Jensen). New Zealand J. Sci., Technol. (A) 34. 1952, 339—340.

Ellis, D. E., Tomato wilt diseases. [Fusarium and bacterial wilt] North Carolina agric. Coll. Ext. Folder 92. 1952, 6 p.

Evans, J. A., How »Manzate« fungicide licks both the blights. [potato and tomato blights] Badger common 'Tater 5. 1952, nr. 4, p. 14—15.

Ferguson, W., Lyall, L. H., and **Racicot, H. N.,** Tomato breeding for resistance to Phytophthora infestans (Mont.) de By. I. Method of inoculation and preliminary results. Sci. Agric., Ottawa, 32. 1952, 57—66, 1 fig.

Gäumann, E., Naef-Roth, St., et **Kobel, H.,** L'acide fusarique, une seconde toxine de flétrissement produite par Fusarium lycopersici Sacc. Compt. rend. Acad. Sci., Paris, 234. 1952, 173—174.

Gäumann, E., Naef-Roth, St., et Kobel, H., Les synergismes chez les toxines de Fusarium lycopersici Sacc. Compt. rend. Acad. Sci., Paris, 234. 1952, 276—278.

Gallegly, M. E., Physiologic races of the tomato late blight fungus. Phytopathology 42. 1952, 461—462.

Gallegly, M. E., Sources of resistance to two races of the tomato late blight fungus. [Phytophthora infestans] Phytopathology 42. 1952, 466.

Gopalkrishnan, K. S., and **Jump, J. A.,** The antibiotic activity of thiolutin in the chemotherapy of the Fusarium wilt of tomato. [Fusarium oxysporium lycopersici] Phytopathology 42. 1952, 338—339, 3 fig.

Guba, E. F., New tomatoes, the result of twenty years of research. [Cladosporium fulvum] Res. in Rev. (Massachus.) 2. 1952, nr. 2, p. 16—17.

Hitchins, P. E. N., Botrytis — stem sprayings seem the best precaution. Comm. Grower 1952, nr. 2949, p. 25, 1 fig.

Hoadley, A. D., Inherited resistance to Colletotrichum phomoides in tomato. Phytopathology 42. 1952, 113 (Abstr.).

Hyre, R. A., Meteorological data correlated with potato and tomato late blight in northeastern United States. [Phytophthora infestans] Phytopathology 42. 1952, 481 (Abstr.).

Kern, H., Über die Beziehungen zwischen dem Alkaloidgehalt verschiedener Tomatensorten und ihrer Resistenz gegen Fusarium lycopersici. Phytopath. Ztschr. 19. 1952, 351—382, 5 Abb.

Keyworth, W. G., Root injury as a factor in the assessment of chemotherapeutants by the tomato Fusarium wilt test. Ann. appl. Biol. 39. 1952, 441—442.

Keyworth, W. G., and **Dimond, A. E.,** Root injury as a factor in the assessment of chemotherapeutants. [Fusarium lycopersici] Phytopathology 42. 1952, 311—315.

Klein, R. M., and **Klein, D. T.,** Effects of maleic hydrazide on initiation and development of tomato crown-gall tumors. Amer. J. Bot. 39. 1952, 727—730.

Kunz, R., Die Wirkungsweise von Bacterium solanacearum E. F. S., dem Erreger der tropischen Schleimkrankheit des Tabaks, auf Solanum lycopersicum L. Phytopath. Ztschr. 20. 1952, 89—112, 15 Abb.

Kusumoto, T., (Studies on the tomato cottony leak. 1. On the pathogenicity of Pythium aphanidermatum on various plant seedlings.) Ann. phytopath. Soc. Japan 16. 1952, 61—62.

Leben, C., A method for clearing leaves. [Alternaria solani] Phytopathology 42. 1952, 352.

Ludwig, R. A., Studies on the physiology of hadromycotic wilting in the tomato plant. [homogeneous hyaline material causes Fusarium oxysporum f. (F. bulbigenum var.) lycopersici] Macdonald Coll. (Canada) Techn. Bull. 20. 1952, 39 p., 10 fig.

McColloch, L. P., and **Worthington, J. T.,** Low temperature as a factor in the susceptibility of mature-green tomatoes to Alternaria rot. [Alternaria tenuis] Phytopathology 42. 1952, 425—427, 3 fig.

Mackay, J. H. E., Fusarium wilt of tomato — the effect of level of nutrition on disease development. [F. bulbigenum var. lycopersici] J. austr. Inst. agric. Sci. 17. 1952, 207—211.

Mezzetti, A., La »macchiettatura batterica« dei frutti di podomoro prodotta dalla Pseudomonas tomato (Okabe) Breed et al. (The »bacterial spotting« of tomatoes pruduced by Pseudomonas tomato (Okabe) Breed et al. Boll. Staz. Pat. veg., Roma, 8 (1950). 1952, 19—34, 2 fig., 1 tab.

Müller, H., Welkekrankheiten der Tomaten. Kleingärtner u. Siedler 6. 1952, 133, 1 Abb.

Nema, K. G., Oospora rot of tomato in Madhya Pradesh. [O. lactis] Nagpur agric. Coll. Mag. 26. 1952, nr. 1—4, p. 15.

Pasfield, G., Tomato spotted wilt: control with DDT sprays. Agric. Gaz. New South Wales 63. 1952, 138—144, 2 fig.

Pound, G. S., Will there be a recurrence this year of late blight on tomatoes. Can blight on potatoes affect tomatoes? Wisconsin Hortic. 41. 1951, 243.

Pristou, R., and **Gallegly, M. E.,** Leaf penetration by Phytophthora infestans. [on tomato] Phytopathology 42. 1952, 16—17 (Abstr.).

Ramsfjell, T., New occurrence of a well known fungus. [Cladosporium herbarum on tomatoes] Gartneryrket (Norge) 42. 1952, 39.

Rebert, A. F., Les vitamines E et K et l'inositol dans le traitement des carcinomes de la tomate. Rev. Path. comp., Paris, 52. 1952, 275—278.

Rodriguez Landaeta, A., Contribución al estudio de la »viruela« del tomate en Venezuela. (A contribution to the study of tomato leaf spot in Venezuela.) [Septoria lycopersici] Agron trop., Maracay, 1. 1952, 251—267, 3 fig.

Roll-Hansen, J., Damping av jord til tomat. (Steaming of soil for tomatoes.) Forskn., Forsøk Landbruket, Oslo, 1952, 229—259, 6 fig. (Stat. Fors.gard Kvithamar Meld nr. 10).

Scheffer, R. P., The wilting mechanism in Fusarium wilt of tomato. Phytopathology 42. 1952, 18 (Abstr.).

Scheffer, R. P., and Walker, J. C., Distribution of Fusarium resistance in the tomato plant. Phytopathology 42. 1952, 474.

Schmitthenner, A. F., Pathogenic variation of Colletotrichum phomoides and related tomato fruit rot fungi. Phytopathology 42. 1952, 18 (Abstr.).

Stubbs, J., The evaluation of systemic fungicides by means of Alternaria solani on tomato. Ann. appl. Biol. 39. 1952, 439—441.

Sutton, W. S., Incidence of spotted wilt in tomatoes. Austr. Plant Dis. Recorder 4. 1952, 16.

Van der Kloes, L. J. J., en Van Leeuwen, J. C., Welke eisen stelt de tomaat aan de grond? Tuinbouwgids, Den Haag, 1952, 329—330.

Wade, E. K., Late blight of potatoes and tomatoes. Wisconsin agric. Coll. Ext. Circ. 424. 1952, 6 p.

Wager, V. A., Late blight in tomatoes. [Phytophthora infestans] Farming South Afr. 27. 1952, 333—334, 336, 7 fig.

Waggoner, P. E., and Dimond, A. E., Effect of stunting agents, Fusarium lycopersici and maleic hydrazide, upon phosphorus distribution in tomato. Phytopathology 42. 1952, 22 (Abstr.).

Waggoner, P. E., and Wallin, J. R., Variation in pathogenicity among isolates of Phytophthora infestans on tomato and potato. Phytopathology 42. 1952, 645—648.

Walter, J. M., Fungicide for tomatoes. Florida Grower 60. 1952, nr. 10, p. 5, 25.

Walter, J. M., and Conover, R. A., Hereditary resistance to late blight of tomato. [Phytophthora infestans] Phytopathology 42. 1952, 197—199.

Williams, P. H., Control of Cladosporium on tomatoes. J. Tomato, Cucumber Marktg. Board (Engl.) 1. 1952, nr. 4, p. 21—23.

Williams, P. H., Didymella stem rot of the tomato. Cheshunt (Herts.) Exp. Res. Stat. Ann. Rept. 1951. 1952, 85—87.

Williams, P. H., and Ebben, M. H., Brown root rot of the tomato. Cheshunt (Herts.) Exp. Res. Stat. Ann. Rept. 1951. 1952, 22—26.

Williams, P. H., and Hack, J., Didymella stem rot. Cheshunt (Herts.) Exp. Res. Stat. Ann. Rept. 1951. 1952, 26—29.

Wilson, J. D., New tomato fungicide. Ohio Farm, Home Res. (Ohio Stat.) 37. 1952, 41—42.

Young, P. A., Home-grown plants, copper dust, decrease tomato losses from late blight. South. Seedsman (Texas) 15. 1952, 21, 61, 65, 68.

Younkin, S. G., Merwarth, F. L., and Hoadley, A. D., Control of gray leaf spot and anthracnose of tomato. [Stemphylium solani, Colletotrichum phomoides] Phytopathology 42. 1952, 114 (Abstr.).

Mittel gegen fleckige Tomaten [Braunfäule]. Bauernbl. Schlesw.-Holst. 6./102. 1952, 939.

Promising new southern tomato named Homestead. [resistant to Fusarium bulbigenum var. lycopersici] Seed World 71. 1952, nr. 8, p. 44, 1 fig.

Tierische Feinde
Animal parasites — Parasites animaux

Andeweg, J. M., Tjallingii, F., van der Kroft, W. G., Riemens, J. M., en Bravenboer, L., Proeven met tomaten-onderstammen resistent tegen het wortelknobbelaaltje. (Experiments with tomato rootstock resistance to root-knot eelworm.) Meded. Dir. Tuinbouw 15. 1952, 255—265.

Berger, G., L'acariose bronzée; son traitement. [Phytoptus lycopersici, Eriophyes destructor] Bull. Chambre Agric. Casablanca 23. 1952, nr. 259, p. 3, 5—7, 9.

Berger, G., Observations sur une maladie de la tomate: l'érinose bronzée; son traitement. [Phytoptus lycopersici] Fruits, Primeurs Afr. Nord, Casablanca, 22. 1952, 295—298.

De Tella, R., Contribuição para o conhecimento do Agathomerus sellatus Germ. (Col., Megalopodidae). (A contribution to knowledge of Agathomerus sellatus.) Rev. Agric., Piracicaba, 27. 1952, 373—376, fig.

Ditman, L. P., The vinegar gnat [Drosophila repleta]: tomato problem of 1952. Canning Trade, Baltimore, 75. 1952, nr. 4, p. 7—8.

Dorst, H. E., and Knowlton, G. F., Tomato russet mite (Vasates destructor). Utah State agric. Coll. Ext. Circ. 152. 1952, 2 p.

Feldmesser, J., Root galls of tomato induced be Heterodera rostochiensis Woll., the golden nematode. Phytopathology 42. 1952, 466.

Gilbert, J. C., and McGuire, D. C., Root knot resistance in commercial type tomatoes in Hawaii. Proc. amer. Soc. hortic. Sci. 60. 1952, 401—411.

Giles, J. E., and Brock, R. D., Rate of increase of nematode infestation of tomatoes after soil fumigation. Austr. J. agric. Res. 3. 1952, 16—23.

Greenleaf, C. H., Tests for resistance to nematodes in tomatoes. Proc. Assoc. south. agric. Workers 49. 1952, 107 (Abstr.).

Kelsheimer, E. G., and Wolfenbarger, D. O., Insects of tomatoes and their control. Florida agric. Exp. Stat. Circ. S-51. 1952, 11 p.

Lowe, A. D., Record of an occurence of potato tuber moth (Gnorimoschema operculella Zell.) damaging tomato fruits. New Zealand Entomologist 1. 1952, nr. 2, p. 7.

Mai, W. F., Susceptibility of Lycopersicon species to the golden nematode. Phytopathology 42. 1952, 461.

Michelbacher, A. E., and **Bacon, O. G.,** California's war on tomato pests. [insects] West. Grower, Shipper 23. 1952, nr. 3, p. 18, 20, 29.

Michelbacher, A.E., Bacon, O.G., and **Middlekauff, W.W.,** Tomato insect control program; all-season program outlined for northern California as protection against the most important tomato pests. Calif. Agric., Berkeley, 6. 1952, 7, 13.

Michelbacher, A.E., Middlekauff, W.W., and **Bacon, O.C.,** Stink bug injury to tomatoes in California. J. econ. Ent. 45. 1952, 126, 2 fig.

Mitchell, W. C., and **Sherman, M.,** Chemical control of a leaf miner (Liriomyza hawaiiensis Frick and the tomato fruitworm (Heliothis armigera Hubner) on tomatoes. Hawaii agric. Exp. Stat. Progr. Notes 75. 1952, 6 p.

Rodriguez, J. G., and **Rodriguez, L. D.,** The relation between minerals, B-complex vitamins and mite populations in tomato foliage. Ann. ent. Soc. Amer. 45. 1952, 331—338.

Staniland, L. N., and **Stone, L. E. W.,** Symphilid damage to tomatoes. [Scutigerella immaculata] Plant Path., London, 1. 1952, 87—88.

Suchow, K. S., Wowk, A. M., and **Muschnikowa, K. S.,** (Industrial testing of DDT dust in controlling big bud of tomato.) [Hyalesthes obsoletus] Dokl. Vsesoiuzn. Akad. Sel'skohoz. Nauk im. V. I. Lenina (Proc. Lenin Acad. agric. Sci.) 17. 1952, nr. 8, p. 24—27.

Taylor, A. L., Infection of tomato by Heterodera from tobacco soil. Plant Dis. Reptr. 36. 1952, 54.

Van der Kroft, W. G., (A new method of controlling root nematodes on tomatoes.) 2. Groenten en Fruit 7. 1952, 970.

Wallace, M. J., A major pest of tomatoes. [Tetranychus] Smallholder, London, 87. 1952, nr. 2188, p. 8.

Wene, G. P., and **White, A. N.,** The tomato russet mite. [Phyllocoptes destructor] Proc. 6th Ann. Rio Grande Valley hortic. Inst. 1952, 78—79.

Wilcox, J., and **Howland, A. F.,** Control of a dipterous leaf miner on tomatoes in California. J. econ. Ent. 45. 1952, 634—639.

Virus

Alexander, L. J., Effect of the tobacco mosaic disease on the yield of unstaked tomatoes. Phytopathology 42. 1952, 463.

Bewley, W. F., Virus free seeds and the tomato grower. 13th int. hortic. Congr., London, Mimeogr. Pap. 1952, 3 p.

Black, L. M., Brakke, M. K., and **Vatter, A. E.,** Partial purification and electron microscopy of tomato spotted-wilt virus. Phytopathology 42. 1952, 3 (Abstr.).

Costa, A. S., Further studies on tomato curly top in Brazil. Phytopathology 42. 1952, 396—403, 2 fig.

Finlay, K. W., Inheritance of spotted wilt resistance in the tomato. I. Austr. J. sci. Res. (ser. B) 5. 1952, 303—314.

Gardner, E. J., Studies on the inheritance of resistance to curly top and vitamin C content in tomatoes. Proc. Utah Acad. Sci., Arts, Let. 27/28 (1949—51). 1952, 69—70.

Gjaerum, H. B., (A new variety of stripe disease.) Gartneryrket (Norge) 42. 1952, 119.

Holmes, F. O., Inheritance of resistance to tobacco-mosaic disease in tomato. Phytopathology 42. 1952, 467.

Howles, R., Heat treatment of tomato seeds. Cheshunt (Herts.) Exp. Res. Stat. Ann. Rept. 1951. 1952, 32—37.

Justham, M. C. D., and **Ogilvie, L.,** Tomato mosaic in relation to source of seed. Plant Path., London, 1. 1952, 64—65.

Klinkowski, M., und **Uschdraweit, H. A.,** Die Bronzefleckenkrankheit der Tomate, eine bisher in Deutschland noch nicht beobachtete Viruskrankheit. Phytopath. Ztschr. 19. 1952, 269—283, 4 Abb.

Kristensen, H. R., (How can stripe diesease of tomatoes be avoided?) Gartnertidende, København, 68. 1952, nr. 2, p. 12—14.

Müller, W. K., Virusbekämpfung im Tomatenanbau. Gartenwelt 52. 1952, 337—338, 5 Abb.

Pelluchi, L., e **Lepori, L.,** Le virosi e le malattie virus-simili del pomodoro segnalate in Italia. (The viroses and virus-like diseases of tomato recorded in Italy.) Not. Mal. Piante nr. 20. 1952, 1—18.

Raychaudhuri, S. P., Retention of strains of tobacco mosaic virus in tomato seeds. Phytopathology 42. 1952, 114 (Abstr.).

Raychaudhuri, S. P., Studies on internal browning of tomato. [TMV] Phytopathology 42. 1952, 591—595, 1 fig.

Siegel, A., and **Cohen, M.,** A quantitative electrophoretic study of competition between two strains of tobacco mosaic virus. Phytopathology 42. 1952, 519 (Abstr.).

Siegel, A., Cohen, M., and **Wildman, S. G.,** A quantitative electrophoretic study of competition between two strains of tobacco mosaic virus. III. The effect of inoculum strain ratio and the method of inoculation on the strain ratio in the systemically infected leaves. Phytopathology 42. 1952, 474.

Smoot, J. J., Tomato spotted wilt in Maryland. Plant Dis. Reptr. 36. 1952, 68—69.

Suchow, K. S., Wowk, A. M., and **Muschnikowa, K. S.,** (Investigations on a commercial scale on DDT powder for the control of tomato stolbur.) [virus] Dokl. Vsesoiuzn. Akad. Sel'skohoz. Nauk im. V. I. Lenina (Proc. Lenin Acad. agric. Sci.) 17. 1952, nr. 8, p. 24—27.

Van Koot, Ij., en **Camfferman, J.,** Een ziekte bij tomaat, veroorzaakt door een combinatie van tomaten- en komkommermozaiek (Nicotiana-virus 1 + Cucumis-virus 1). (A complex disease of tomato caused by Nicotiana virus 1 + Cucumis virus 1.) Tijdschr. Plantenziekten 58. 1952, 14—20, 4 fig.

Nasturtium

Howard, H. W., and **Lyon, A. G.,** Biological flora of the British Isles. Nasturtium officinale R. Br. J. Ecol., London, 40. 1952, 228—238, 1 fig., 1 tab. geogr.

Roland, G., Sur une maladie à virus du cresson (Nasturtium officinale). [Myzus persicae] Parasitica, Gembloux, 8. 1952, 1—3, 1 fig.

Spencer, D. M., Watercress investigations. [crook root disease of Spongospora sp.] Warwick nat. Veg. Res. Stat. Rept. 1951. 1952, 61—68.

Pastinaca sativa

Riley, E. A., Leaf spot of parsnip caused by Phleospora crescentium (Barth.) N. Comb. Mycologia, Lancaster, 44. 1952, 213—215, 2 fig.

Stubbs, L. L., Parsnip canker. Austr. Plant Dis. Recorder 4. 1952, 47.

Walker, J., Parsnip leaf spot caused by Phleospora crescentium. Austr. Plant Dis. Recorder 4. 1952, 48.

Wilkinson, R. E., Parsnip canker is caused by Itersonilia sp. Phytopathology 42. 1952, 23 (Abstr.).

Raphanus sativus

Hagiya, K., (Physiological studies on the occurrence of the »pithy tissue« in root crops. I. On the formation of pithy tissue during the growth of radish. II. On the varietal difference of the characters concerned with the occurrence of pithy tissue in radish.) J. hortic. Assoc. Japan 21. 1952, 81—86, fig.; 165—173, fig.

Harcourt, D. G., Matthewman, Cass, L. M., and **Friend, W. G.,** Tests of various insecticides against the cabbage maggot attacking radish, 1948—1950. Sci. Agric., Ottawa, 32. 1952, 214—218.

Herold, F., Untersuchungen zur Rettichschwärze und zur Biologie ihres Erregers Aphanomyces raphani Kendr., im Vergleich mit weiteren Aphanomyces-Arten. Phytopath. Ztschr. 19. 1952, 79—125, 25 Abb.

Shirahama, K., and **Motohashi, S.,** (Relation between the population of winged aphides infesting radish seedlings and infection of radish by mosaic virus. III.) Ann. phytopath. Soc. Japan 16. 1952, 121—122, 1 fig.

Takahashi, W. N., Rod-shaped virus of radish mosaic. Phytopathology 42. 1952, 623—624, 2 fig.

Yukawa, Y., The difference in nitrogen components of radish due to the infection with virus. (Preliminary report.) Bull. Fac. Agric. Yamaguti Univ. 3. 1952, 1—7.

Rheum

Anderson, R. H., The red leaf disease of rhubarb. Rept., Proc. 8th Ann. Meetg. west. canad. Soc. Hortic. 1952, 82—84.

Campbell, L., Bud rot of rhubarb. Phytopathology 42. 1952, 512 (Abstr.).

Conroy, R. J., Crown gall [Agrobacterium tumefaciens] of rhubarb. Austr. Plant Dis. Recorder 4. 1952, 9.

Valder, P. G., Rhubarb rust. Austr. Plant Dis. Recorder 4. 1952, 9.

Solanum melongena

Mahmud, K. A., Pythium damping-off of Brinjal seedlings. [Phythium aphanidermatum on eggplant] Sci. and Cult., Calcutta, 18. 1952, 149—150.

Sarejanni, J. A., Le Phytophthora des aubergines en Grèce. Ann. Inst. phytopath. Benaki 6. 1952, 14—18.

Spinacia oleracea

Chapman, R. K., The control of leaf miners on spinach and beets. Agric. Bull. (Shell) ADB. 202. 1952, 1 p.

Cheo, P.-Ch., and **Pound, G. S.,** Relation of air temperature, soil temperature, photoperiod, and light intensity to the concentration of cucumber virus 1 in spinach. Phytopathology 42. 1952, 306—310, 1 fig.

Cheo, P.-Ch., and **Pound, G. S.,** Studies on the effect of environmental factors on the concentration of cucumber virus 1 in Nobel spinach. Phytopathology 42. 1952, 4—5 (Abstr.).

Cheo, P.-Ch., Pound, G., S., and **Weathers, L. G.,** The relation of host nutrition to the concentration of cucumber virus 1 in spinach. Phytopathology 42. 1952, 377—381, 1 fig.

Miles, M., Spinach pest burrows in the stem. Grower, London, 37. 1952, 978—979.

Noll, C. J., and **Odland, M. L.,** Influence of time of application of certain herbicides on pre-emergence weeding of spinach. Pennsylv. agric. Exp. Stat. Progr. Rept. 68. 1952, 4 p.

Plakidas, A. G., White rust of spinach in Louisiana. [Albugo occidentalis] Plant Dis. Reptr. 36. 1952, 211.

Pound, G. S., and **Cheo, P.-Ch.,** Studies on resistance to cucumber virus 1 in spinach. Phytopathology 42. 1952, 301—306, 2 fig.

Raabe, R. D., Effect of certain environal factors on the initation and development of the white rust disease of spinach. Phytopathology 42. 1952, 17 (Abstr.).

Raabe, R. D., and **Pound, G. S.,** Morphology and pathogenicity of Albugo occidentalis, the incitant of white rust of spinach. Phytopathology 42. 1952, 473.

Raabe, R. D., and **Pound, G. S.,** Relation of certain environal factors to initiation and development of the white rust disease of spinach. Phytopathology 42. 1952, 448—452, 2 fig.

Ramsey, G. B., Smith, M. A., and **Wright, W. R.,** Orange rust, a serious market disease of Colorado spinach in 1952. [Puccinia aristidae Tracy] Plant Dis. Reptr. 36. 1952, 323—324, 1 fig.

Varia

Jackson, A. A., Witloof chicory. J. R. hortic. Soc., London, 77. 1952, 47—54, 2 fig.

Janson, B. F., Fusarium root rot and wilt of dill. [Anethum graveolens] Phytopathology 42. 1952, 152—155, 2 fig. — Ohio State Univ. Doct. Diss. 63. 1952, 141—144 (Abstr.).

Kulescha, Z., Action de l'hydrazide maléique sur la prolifération des tissus de crown-gall de scorsonère sur leur teneur en auxine. Compt. rend. Acad. Sci., Paris, 236. 1952, 958—959.

Schmitt, C., Influence de la lumière sur la résistance de plantules de Lepidium sativum L. à Botrytis cinerea Pers. Compt. rend. Acad. Sci., Paris, 235. 1952, 258—260.

Takeshita, R. M., Linn, M. B., and **Anderson, H. W.,** Oospores of the white-rust fungus, Albugo candida, found in leaves of horseradish. [Armoracia rusticana] Plant. Dis. Reptr. 36. 1952, 253—254.

f. Arznei- und Gewürzpflanzen
Medicinal plants and spices
Plantes médicinales et aromatiques

(Siehe auch — see also — voyez aussi p. 156.)

Arana, L. A., El comercio del barbasco. [Wollkraut] Inform. comerc Dir. Gen. Com. (Perú) 2. 1952, nr. 24, p. 15—18.

Bärner, J., Wurzelnematoden an Baldrian. [Heterodera] Nachr.bl. dtsch. Pfl.schutzd., Berlin, NF. 6. 1952, 15, 2 Abb.

Baxter, J. W., Physiologic specialization in Puccinia menthae. Phytopathology 42. 1952, 2 (Abstr.).

Behr, L., Über die Blütengalle des Teucrium chamaedrys L. [Copium teucrii, C. cornutum] Ber. dtsch. bot. Ges. 65. 1952, 326—330, 6 Abb.

Bouček, Z., Nový škůdce kmínu, vosička Systole albipennis Walk. (Eurytomidae, Chalc., Hym.) (A new pest of the cumin, Systole albipennis Walk.) Zool., ent. Listy (Folia zool., ent.), Brno (CSR), 1. 1952, 4—9, 6 fig.

Bradley, R. H. E., Studies on the aphid transmission of a strain of henbane mosaic virus. [Hyoscyamus] Ann. appl. Biol. 39. 1952, 78—97, 1 fig.

Ciccarone, A., Note fitopatologiche. II. Segnalazione italiana della Peronospora della Trigonella (Trigonella foenum-graecum L.). (Phytopathological notes. II. Peronospora trigonellae Gäum. in Italy.) Ann. Sperim. agr., Roma, 6 (n. ser.). 1952, 165—168, 1 fig.

De Azevedo Noronha, E., Contribuição para o estudo da Melampsora ricini Passer. em Portugal. Agron. lusit. (Portugal) 14. 1952, 229—247, 2 tab.

Delhaye, R. J., L'étude de la pourriture des inflorescences de pyrèthre à la Station de Mulungu. Bull. Inform. Inst. nat. Étude agron. Congo belge 1. 1952, 305—320.

Essig, E. O., The aloe aphid, Aloephagus myersi Essig (Homoptera). Pan-Pacific Ent. 28. 1952, 117—118.

Horner, C. E., Diseases of peppermint in Oregon in 1951. Plant Dis. Reptr. 36. 1952, 245.

Horner, C. E., Root and rhizome rot of peppermint. Phytopathology 42. 1952, 514—515 (Abstr.).

Klostermeyer, E. C., Control of flea beetles and mites on peppermint. Washington agric. Exp. Stat. Circ. nr. 190. 1952, 3 p.

Lozowoj, D. I., (Laurocerasus officinalis and insects which damage it in Tbilisi.) Bull. Otd. Biol. Obshch. Isp. Prirody, Moskwa, 57. 1952, nr. 5, p. 45—46.

Nelson, R., Mint rust and its control. [Puccinia menthae] Michigan agric. Exp. Stat. Quart. Bull. 34. 1952, 436—455, 4 fig.

Niemann, E., Vergleichende Untersuchungen über die Ausscheidung keimungshemmender Stoffe aus Früchten und Samen unter besonderer Berücksichtigung von Foeniculum vulgare Miller. Flora, Jena, 139. 1952, 185—242.

Parmenter, L., A note on the mugwort stem fly, Oxyna parietina Linn. [Beifuß] Ent. Rec., J. Variation 64. 1952, 58—61.

Porter, C. L., and **Himelick, E.,** Production of disease-free planting stock of Mentha piperita L. Phytopathology 42. 1952, 472.

Rao, A. S., A gall midge (Itonididae: Diptera) pest of castor in India. [Asphondylia ricini] Curr. Sci., Bangalore, 21. 1952, 347—348.

Sarejanni, J. A., Une maladie du lentisque cultivé. Ann. Inst. phytopath. Benaki 6. 1952, 19—22.

Wade, G. C., Anthracnose on Digitalis lanata. Austr. Plant Dis. Recorder 4. 1952, 37—38.

g. Varia

Brown, J. G., and **Boyle, A. M.,** Safflower rust appears in Arizona. [Puccinia carthami Cda.] Plant Dis. Reptr. 36. 1952, 325—326, 2 fig.

Bunina, A. M., (Treatment of kok-saghyz and tau-saghyz seeds with granosan.) Dostizheniia Nauki i Peredovogo Opyta v Sel'skom Khoz. (USSR) 3. 1952, 30—31.

Bytinski-Salz, H., Safflower pests in Israel. Trans. IXth int. Congr. Ent., Amsterdam, 1 (1951). 1952, 745—750, 2 fig.

Claassen, C. E., Inheritance of sterility, flower color, spinelessness, attached pappus and rust resistance in safflower, Carthamus tinctorius. Nebraska agric. Exp. Stat. Res. Bull. 171. 1952, 28 p.

Cormack, M. W., and **Harper, F. R.,** Resistance in safflower to root rot and rust in Alberta. Phytopathology 42. 1952, 5 (Abstr.).

Erwin, D. C., Phytophthora root rot of safflower. Phytopathology 42. 1952, 32—35, 2 fig.

Favard, P., Les parasites du carthame. Terre d'Oc (France) 34. 1952, 194—196.

Favard, P., Les parasites du carthame dans le Languedoc toulousain. Progr. agric., vitic. 137. 1952, 132—134. — Agriculture, Paris, 16. 1952, 139.

Klimesch, J., Über zwei neue Coleophora-Arten (C. tolli spec. nov. auf Thymus, C. argentariella spec. nov. auf Helianthemum canum) (Lep., Coleophoridae). Ztschr. Wiener ent. Ges. 36 (1951). 1952, 144—148.

Kouyeas, V., The foot rot of Pistachio tree (Pistacia vera L.). Ann. Inst. phytopath. Benaki 6. 1952, 81—87, 5 fig.

McGregor, W. G., and **Hay, W. D.,** Safflower — Canadian experiments. [diseases] Sci. Agric., Ottawa, 32. 1952, 204—213, 1 fig.

Mellini, E., Insetti del Carduus nutans L. III. Euribia solstitialis L. (Diptera Trypetidae). Boll. Ist. Ent. Univ. Bologna 19. 1952, 97—119, 9 fig.

Pupillo, M., e **Di Caro, S.,** Alcune osservazioni sulle Septoria del pistacchio. (Some observations on the Septoria species damaging the pistachio tree.) Ann. Sperim. agr., Roma, 6 (n. ser.). 1952, 623—634, 7 fig.

Rieuf, P., La rouille du pistachier au Maroc. [Pileolaria terebinthi] Fruits d'outre mer 7. 1952, 70—71, 6 fig.

Schuster, M. L., and **Christiansen, D. W.,** A foot and root disease of safflower caused by Puccinia carthami Cda. [Carthamus tinctorious] Phytopathology 42. 1952, 211—212, 1 fig.

Thomas, C. A., A greenhouse method of evaluating resistance in safflower to Phytophthora root rot. [Phytophthora drechsleri] Phytopathology 42. 1952, 219—221.

Thomas, C. A., Transmission of safflower rust on treated seed. [Puccinia carthami] Phytopatholgy 42. 1952, 108—110, 1 fig.

Thomas, C. A., Varietal susceptibility in safflower to Phytophthora root rot. Phytopathology 42. 1952, 21 (Abstr.).

6. Obst
Fruits — Fruits

a. Allgemeiner Teil
General part — Partie générale

Böhm, H., Neue und wenig bekannte Obstbaumschädlinge im Sommer 1951. Pflanzenarzt, Wien, 5. 1952, Nr. 4, S. 4—5.

Bömeke, H., Mißbildungen an Früchten. Mitt. Mitgl. Obstbauvers.ring Altes Land usw., Jork, 7. 1952, 246—250, 7 Abb.

Bömeke, H., Versuche mit Hormonen im Obstbau. Mitt. Biol. Zentralanst. H. 74. 1952, 87—89.

Bravenboer, L., Verschijningstijdstippen van ziekten en kwalen bij fruit onder glas. Tuinbouwgids, Den Haag, 1952, 415, 1 fig.

Brooks, R. M., and **Olmo, H. P.,** Register of new fruit and nut varieties. List 7. [diseases] Proc. amer. Soc. hortic. Sci. 60. 1952, 497—504.

Bullock, R. M., Healthy trees need balance in minerals. Better Fruit, Portland, 46. 1952, nr. 10, p. 10, 24—29.

Dähn, G., Vergilbungs-, Flecken- und Dürreerscheinungen an den Blättern von Obstgehölzen. Dtsch. Baumsch. 4. 1952, 314—316, Abb.

De Brouwer, W. M. Th. J., en **van Koot, Ij.,** Voorkoming van ziekten in fruitteelt onder glas. Tuinbouwgids, Den Haag, 1952, 416.

De Haas, Qualitätserzeugung bei Obst. AID 1952, Nr. 44, 16 S., 56 Abb.

Dunegan, J. C., Overcoming fruit diseases. Amer. Fruit Grower, Cleveland (Ohio), 72. 1952, nr. 2, p. 16, 44—45.

Foster, L. R., Good orchard management urged for pest and disease control in the Hood River area. West. Fruit Grower, San Francisco, 6. 1952, nr. 2, p. 46—47.

Friedrich, G., Die derzeitige Lage im Obstbau und die Möglichkeiten zur Ertragssteigerung durch den Obstbauentwicklungsplan in der DDR. Dtsch. Landw. 3. 1952, 494—496.

Godan, D., Krankheiten und Schädlinge im Obstbau und ihre Bekämpfung. In: Kronberg u. Godan, Aus der Praxis des Obstbaus. Verl. »Kleingärtner u. Siedler«, Berlin 1952, S. 46—64, 13 Abb. (Schr.reihe f. Kleingärtner u. Siedler H. 1).

Groves, A. B., Fruit disease problems in 1951. Virginia Fruit (Virginia State hortic. Assoc.) 40. 1952, 127—129.

Heller, G., Nicht nur Baumpflege, sondern auch Fruchtpflege betreiben. Obstbau 71. 1952, 166—167, 3 Abb.

Hinke, A., (Notes from the fruit culture circle at Thurø.) Gartnertidende, København, 68. 1952, 420—422.

Hus, P., (Comparative novelties.) [fruit diseases and pests] Fruitteelt, Arnhem, 42. 1952, 154—155.

Hus, P., (1952 teacher for 1953.) [fruit diseases and pests] Fruitteelt, Arnhem, 42. 1952, 940—941.

Klett, W., Die wichtigsten Krankheiten und Schädlinge im Obstbau 1952. Obstbau 71. 1952, 7, 10—11.

Köppel, K., Die Umstellung auf Qualitätserzeugung beginnt mit der Entrümpelung und Auflockerung der Altbestände. Obstbau 71. 1952, 132—133.

Kotte, W., Kleiner Führer durch den Pflanzenschutz im Obstbau. Flugschr. DLG., Frankfurt/Main, Bd. 17. 1952, 32 S., zahlr. Abb.

Leib, E., Bemerkenswerte Befallsbeobachtungen im Saarland. [Taphrina deformans, Gnomonia erythrostoma, Clasterosporium carpophilum, Tarsonemus fragariae, Hyponomeuta malinella] Anz. Schädl.kunde 25. 1952, 65—68, 6 Abb.

Loewel, E. L., Fruchtschäden im niederelbischen Obstanbaugebiet und deren Ursachen. Mitt. Mitgl. Obstbauvers.ring Altes Land usw., Jork, 7. 1952, 139—145, 14 Abb.

Loewel, E. L., Maßnahmen zur Erhöhung der Erntemenge und Qualität unseres Obstes unter Ausnutzung des augenblicklichen Standes unserer Kenntnisse auf dem Gebiete der Obstbauwissenschaft. Mitt. Mitgl. Obstbauvers.ring Altes Land usw., Jork, 7. 1952, 38—44.

Mandelson, L. F., Cherry and apple breeding work at Bathurst. Agric. Gaz. New South Wales 63. 1952, 131.

Maurer, K. J., Betrachtungen zu Krisen im Obstbau. Obstbau 71. 1952, 180—181.

Mehlisch, K., Schädliche Tiere und Pilze an den Obstgehölzen und ihre Bekämpfung. Friesdorfer Hefte (Verlag Dtsch. Gärtnerbörse, Aachen) H. 8. 1952, 127 S., 18 Abb.

Meier, E., Die Wundbehandlung im Obstbau. Schweiz. landw. Ztschr. »Grüne« 80. 1952, 349—352.

Müller, F. P., Wundbehandlung bei Obstbäumen. Kleingärtner u. Siedler 6. 1952, 4, 1 Abb.

Pauck, Wunden an Obstbäumen sachgemäß behandeln! Bad. landw. Wochenbl. 119. 1952, 60, 4 Abb.

Rebour, H., Le sillon d'irrigation large et peu profond. Fruits, Primeurs Afr. Nord, Casablanca, 22. 1952, 5—7.

Reich, H., Studienfahrt durch die belgischen Obstanbaugebiete vom 24. bis 28. August 1952. Mitt. Mitgl. Obstbauvers.ring Altes Land usw., Jork, 7. 1952, 194—201, 9 Abb.

Scheil, W., Studienfahrt durch die holländischen Obstanbaugebiete. Mitt. Mitgl. Obstbauvers.ring Altes Land usw., Jork, 7. 1952, 164—178, 6 Abb.

Schempp, A., Frick, M., Kugelmann, E., und **Weber, P.,** Gemüse- und Obsterzeugung in den USA. AID-Ber. Stud.reisen Ausl.hilfe USA Nr. 62. 1954, 44 S.

Schneider, E., Erhaltung der Obstbäume durch Wundenpflege. Zentralbl. dtsch. Erwerbsgartenbau 4. 1952, Nr. 5, S. 1—2.

Schøyen, T. H., and **Ramsfjell, T.,** (Pests and diseases that can be spread through fruit trees and berry bushes from nurseries.) Gartneryrket (Norge) 42. 1952, 225—258, 260, 263—264.

Stanković, D., (Promotion of wound-healing of fruit trees by means of phytohormonal stimulants.) (Yearb. Fac. Agric.), Beograd, nr. 4. 1952, 205—211, 1 tab.

Steenland, A. P., and **Every, R. W.,** Insect and disease control on Oregon fruit, nuts and berries. West. Fruit Grower, San Francisco, 6. 1952, nr. 2, p. 50—51.

Stoy, O., (Leaf fall and leaf injuries 1952.) Fruktodlaren (sver. pomol. Fören.), Stockholm, 23. 1952, 147—150.

Swartwout, H. G., Some special disease problems with tree fruits. Kansas State hortic. Soc. Bienn. Rept. 51. 1952, 88—95.

Taubert, G., Sortenanfälligkeit und Spritzmittelwirkung gegen Apfelschorf, Apfelmehltau und Rote Spinne. Zentralbl. dtsch. Erwerbsgartenbau 4. 1952, Nr. 8, S. 1, 3.

Thompson, A. H., Thinning apples and peaches with chemical sprays. Mountaineer Grower 22. 1952, nr. 190, p. 22—26.

Tiel, E., Große Wunden an Obstbäumen überbrücken! Rhein. Bauernztg. 6. 1952, 998, 2 Abb.

Trappmann, W., Die Entwicklung des Obstbaues und der Obstabsatz-Organisationen in Dänemark. Nachr.-bl. dtsch. Pfl.schutzd., Braunschweig, 4. 1952, 61—62.

Tunblad, B., (Leaf fall and leaf injuries 1952.) Fruktodlaren (sver. pomol. Fören.), Stockholm, 4. 1952, 98-99.

Tunblad, B., Några aktuella skadedjur på fruktträd. Växtskyddsnotiser, Stockholm, 16. 1952, 33—35, 2 fig.

Verona, O., Intorno alla presenza nelle zone del litorale Toscano di malattie dei fruttiferi ad eziologia incerta. (Nota casistica.) (On the presence in the coastal zones of Tuscany of diseases of uncertain etiology on fruit trees.) Ann. Sperim. agr., Roma, 6 (n. ser.). 1952, 615—622, 8 tab.

Welsh, M. F., and Lott, T. B., Testing to ensure disease freedom in tree fruit nursery stock. Country Life 36. 1952, 11, 15.

Erhöhte Schrotschuß- und Schorfgefahr im Obstbau. Schweiz. Ztschr. Obst-, Weinbau 61. 1952, 179.

Obstbauarbeiten im Januar—September, November, Dezember. Bad. landw. Wochenbl. 119. 1952, 28, 75, 166—167, 227—340, 427, 518, 547, 649, 805, 870—871.

Stammpflege der Obstbäume: keine Nebensache. Kleingärtner und Siedler 6. 1952, 5, 1 Abb.

Wunden an Obstbäumen sachgemäß behandeln. Obstbau 71. 1952, 182—183, 7 Abb.

Wunden heilen — Werte schaffen. Land und Frau 32. 1952, 80.

Zusammenarbeit zwischen Obstbauberatungsdienst und Pflanzenschutz. Mitt. dtsch. Landw.-Ges., Frankfurt/M., 67. 1952, 322.

b. Nichtparasitäre Krankheiten
Diseases not caused by parasites
Maladies non parasitaires

Abadia, A., Deficiencia inducida de hierro en frutales. An. Edafol., Fisiol. veg., Madrid, 11. 1952, 641—650.

Baier, W., »Tauno-Laine«, ein neuer Frostschutzapparat. Obstbau 71. 1952, 52—53, 3 Abb.

Bannister, E. A., Some factors to consider in planning frost protection in deciduous orchards. Proc. 48th Ann. Meetg. Washington State hortic. Assoc. 1952, 199—201.

Barberis, C., e Cordero di Montezemolo, M., Sul comportamento dei frutteti allagati. (The behaviour of flooded fruit trees.) Riv. Fruttic., Ravenna, 14. 1952, 57—64.

Bargioni, G., (Consequences of the flooding of the Rhine on fruit trees.) Agric. ferrarese (Italia) 56. 1952, 6—11.

Black, M. W., The problem of prolonged rest in deciduous fruit trees. 13th int. hortic. Congr., London, Mimeogr. Pap. 1952, 8.

Blin, H., Anomalies dans la culture des arbres fruitiers. Nature, Paris, 3189. 1951, 13—14.

Breuer, W., Frostschäden im Obstbau. Ber. dtsch. Wetterd. US-Zone H. 32. 1952, 74—77, 10 Abb.

Brown, D. S., Climate in relation to deciduous fruit production in California. IV. Effect of the mild winter of 1950—51 on deciduous fruits in Northern California. Proc. amer. Soc. hortic. Sci. 59. 1952, 111—118.

Chassany, J., Les gelées de printemps et la période dite »lune rousse«. Pomol. franç., Lyon, 79. 1952, 27—32.

Chateau, R. P., Repid diagnosis and treatment of nutritional deficiencies in fruit trees. Engrais, Lille, nr. 51. 1952, 20—22.

Delbard, G., Les méfaits des gelées tardives sur la floraison des arbres fruitiers dans le Centre. Jardins France, Paris, 126. 1952, 184—187.

De Menezes, O. B., (Causes of fruit fall.) Granja, Porto Alegre, 8. 1952, nr. 62, p. 34—35.

Donnelly, M., Freeze and flood years in southern California. Calif. Citrogr. 37. 1952, 95, 108.

Embleton, T. W., Kirkpatrick, J. D., and Parker, E. R., Phosphatic fertilizers on Valencias; field response in phosphorus-deficient orchard reveals improvements in foliage growth and color, and in fruit quality. Calif. Agric., Berkeley, 6. 1952, nr. 11, p. 8—9.

Fagnani, G., Sensibilita' delle piante da frutto al trattamento con gas, sotto vuoto. (Sensibility of fruit trees to the gaseous treatment under vacuum.) Not. Mal. Piante nr. 21. 1952, 32—35.

Fhivre, M., La lutte contre les gelées de printemps en culture fruitière. Rev. hortic., Paris, 124. 1952, 735—738.

Falch, J., und Strauß, E., Versuche über die Anwendung von Fruchtfallhormonen. Mitt. höh. Bundeslehr-, Vers.anst. Wein, Obstbau, Klosterneuburg usw., 2. 1952, 119—123.

Farmer, A., Facts about seedless fruit. Orchardist New Zealand 25. 1952, nr. 2, p. 13—14.

Fischer, R., Windschäden an Obstbäumen. Pflanzenarzt, Wien, 5. 1952, Nr. 7, S. 4.

Fraser, H., Frost hazards in fruit-growing. Gardg. illustr., London, 69. 1952, 72.

Fritzsche, R., Folgen der Frostnacht vom 2. auf den 3. April 1952. Schweiz. Ztschr. Obst-, Weinbau 61. 1952, 246—247, 3 Abb.

Gaßner, K., Bodenmüdigkeit bei Obstgehölzen. Zentralbl. dtsch. Erwerbsgartenbau 4. 1952, Nr. 25, S. 1, 6.

Göttel, L., Das Problem der Erschöpfung im Obstbau. Obstbau 71. 1952, 54—55.

Hallemans, A., (Some considerations.) Cult. en Handel 18. 1952, 634—635.

Hibbard, A. D., Freezing injury to fruit buds. Missouri State hortic. Soc. News April 1952, 2—3.

Hiemeieers, J., (Anomalies of fruit trees.) Tuinbouwberichten 16. 1952, 10, 25.

Hilton, R. J., What is hardiness in fruit plants? (Seas. Notes Alberta Univ., Coll. Agric., Dept. Plant Sci., 37. 1952, 9—10.

Holder, E., The big freeze. [effects upon Texas fruit] Texas A. & M. Agriculturist 10. 1952, nr. 3, p. 12, 22—23.

Howard, W. E., and Hjersman, H. A., Deer repellent sprays not harmful to foliage on two-year-old trees. J. Wildlife Managem. 16. 1952, 390—391.

Kārklinš, L., (Frostwiderstandsfähigkeit der Obstbäume.) (LPSR ZA biol. Inst.), Riga, 1952, 76—82.

Karnatz, H., Über Windschutzpflanzungen im Obstbau. Mitt. Mitgl. Obstbauvers.ring Altes Land usw., Jork, 7. 1952, 86—87, 1 Abb.

Kemmer, E., und Schulz, F., Das Frostproblem im Obstbau. I. Der Blütenfrost. Merkbl. Inst. Obstbau Berlin 16. 1952, 19 S.

Kobel, F., Fritzsche, R., Gerber, H., und Bußmann, A., Ein Vegetationsversuch mit Topfobstbäumen. I-II. [Mangelschäden] Schweiz. Ztschr. Obst-, Weinbau 61. 1952, 103—113, 8 Abb.; 137—140, 3 Abb.

Kobernuß, E.-Ch., Untersuchungen zur Ursache und Behebung der Bodenmüdigkeit bei Obstgehölzen. M. Niemeyer Verl., Halle (Saale) 1952. 44 S., 29 Abb., 8 Taf. (Kühn-Archiv Bd. 64).

Krick, I. P., Spring frost forecast. Amer. Fruit Grower, Cleveland (Ohio), 72. 1952, nr. 2, p. 22—23.

Lauber, H. J., Die nordische Vogelbeere als Windschutzpflanze für Obstanlagen. Schweiz. Ztschr. Obst-, Weinbau 61. 1952, 521—523, 2 Abb.

Leib, Massenausfall von Veredlungen durch gewebeschädigendes Baumwachs. Untersuchungen an Pfropfungen von Obstgehölzen. Gesunde Pflanzen 4. 1952, 137—141, 3 Abb.

Lenander, S. E., (Hormone spraying against fruit fall before the harvest.) Svensk Jordbruksforskn., Stockholm, 1952, 126—131.

Lewis, F. O., Low-cost frost protection. Fruit Grower, London, 1952, nr. 2933, p. 476.

Loewel, E. L., Das Frühjahr 1952 und die Frostschäden im Niederelbegebiet. Mitt. Mitgl. Obstbauvers.ring Altes Land usw., Jork, 7. 1952, 102—115, 23 Abb.

Lundsten, T., (Determination of deficiency diseases in orchards.) Erhvervsfrugtavleren, Odense (Danmark), 18. 1952, 329—331.

Mann, A. J., Keane, F. W. L., and Lapinš, K., Winter injury of tree fruits in British Columbia in 1949—50. Sci. Agric., Ottawa, 32. 1952, 173—179, 3 fig.

Maurer, K. J., Frostplatten sind heimtückisch! Obstbau 71. 1952, 35—36, 2 Abb.

Maurer, K. J., Die Frostresistenz im Obstbau. Obst- u. Gartenbau, Stuttgart, 7. 1952, 179—180.

Maurer, K. J., Genügt die Verkürzung des Stammes als Frostschutz? Obst- u. Gartenbau, Stuttgart, 7. 1952, 148—149, 2 Abb.

Maurer, K. J., Qualitätsmindernde Klimaeinflüsse auf die Frucht. Obst- u. Gartenbau, Stuttgart, 7. 1952, 147—148, 3 Abb. — Obstbau 71. 1952, 133—134, 6 Abb.

Maurer, K. J., Verhüten und Heilen von Frostschäden bei Obstgehölzen. Obstbau 71. 1952, 115—117, 8 Abb.

Mitchell, A. E., Hormones for improved color and prevention of pre-harvest drop. Michigan State hortic. Soc. Ann. Rept. 81. 1952, 62—65.

Müller, F. P., Frostschäden an Obstbäumen. Kleingärtner u. Siedler 6. 1952, 22, 1 Abb.

Mulder, D., (Some results of the investigation of nutritional diseases of fruit.) TNO-Nieuws (Org. toegepast-natuurwetensch. Onderz.), Amsterdam, 7. 1952, 405—406.

Nolz, O., Ernährungskrankheiten im Obstbau. Obst- u. Gartenbau, Stuttgart, 7. 1952, 83—85, 3 Abb.

Pachlewski, R., (Les observations sur le développement des mycorrhizes chez quelques arbres fruitiers dégénérés dans les pépinières des Jardins de Kórnik.) Acta Soc. Bot. Polon. 21. 1952, 577—590.

Preston, A. P., Wind records in some Kent orchards. East Malling Res. Stat. Annu. Rept. 39 (1951). 1952, 93—96.

Rogers, W. S., Protection from spring and autumn frosts by continuous water sprinkling. East Malling Res. Stat. Ann. Rept. 1951 (39). 1952, 197—198, 1 tab.

Rogers, W. S., Some aspects of spring frost damage to fruit and its control. 13th int. hortic. Congr., London, Mimeogr. Pap. 1952, 10.

Scarascia, G. T., Reazioni di alcuni fruttiferi al 2, 4-D. (Reactions of some fruit trees to 2, 4-D.) Ann Sperim. agr., Roma, 6 (n. ser.). 1952, 213—226, 9 fig.

Schnell, Die Verhütung der Strahlungsschäden im Obstbau. Hess. Obstbau 7. 1952, 5—6.

Smith, W. H., Deterioration in fruits and vegetables during marketing. Fruit Grower, London, 1952, nr. 2949, p. 22—23.

Solowjewa, M. A., (The effect of cultural operations on the degree of winter injury to fruit trees.) Sad i Ogorod (Orchard and Garden) 1952, nr. 2, p. 28—32.

Stirnberg, Die leidigen Wasserschosse. Land und Frau 32. 1952, 530.

Swift, H. L., Factors in frost control. Proc. 48th Ann. Meetg. Washington State hortic. Assoc. 1952, 183—191.

Syndikus, W., Düngermangelkrankheiten im Obstbau. Wegweiser Obstbau-Garten-Kleintierhof 7. 1952, 57.

Van Overbeek, J., Growth regulators and defoliants. Fruit Veg. Rev. 14. 1952, 11.

Weger, N., Frostschadenverhütung. Hess. Obstbau 7. 1952, Nr. 5, S. 67—69.

Witte, K., Untersuchungen zur Frage der Frostabwehr durch Beregnung. Obstbau 71. 1952, 50—51, 5 Abb. — Ber. dtsch. Wetterd. US-Zone H. 32. 1952, 77—78.

Woodbridge, C. G., and McLarty, H. R., Observations and investigations of manganese deficiency in tree fruits in British Columbia. Proc. canad. phytopath. Soc. nr. 20. 1952, 24 (Abstr.).

Zanon, C., (Is frost protection for fruit possible by anti-radiation methods?) Riv. Ortoflorofruttic. ital. 36. 1952, 100—104.

Frostschäden an Blütenknospen. Schweiz. Ztschr. Obst-, Weinbau 61. 1952, 179.

Marktbeeinflussende Dürreschäden bei Obst und Gemüse. Mitt. dtsch. Landw.-Ges., Frankfurt/M., 67. 1952, 810, 1 Landkarte.

Nicht angewachsene Bäume sind noch zu retten! Kleingärtner u. Siedler 6. 1952, 85.

La sécheresse, la chaleur, la forte insolation et leurs conséquences sur les arbres fruitiers. Rev. rom. Agric., Vitic., Arboric. 8. 1952, 91—92, 2 fig.

Sonnenbrandschäden an Obstbäumen. Schweiz. Ztschr. Obst-, Weinbau 61. 1952, 279—280, 1 Abb.

Wenn eine Baumsendung bei Frostwetter eintrifft. Kleingärtner u. Siedler 6. 1952, 6.

Wirksamer Schutz für Obstanlagen. [Windschutz] Landw. Ztschr. Nord-Rheinprov. 119. 1952, 157—158, 1 Abb.

c. Pflanzliche Feinde
Vegetal parasites — Parasites végétaux

Baldassri, T., (Root tumors.) [in fruit by Bacterium tumefaciens] Agric. ferrarese (Italia) 56. 1952, 239—241.

Byrde, R. J. W., Experiments on the control of brown rot of apples and plums. [Sclerotinia fructigena, S. laxa] J. hortic. Sci., London, 27. 1952, 130—144, 1 tab.

Capuano, E., (Preliminary notice on a Sphaeropsis of the sorb [Sorbus domestica] tree.) Not. Mal. Piante nr. 21. 1952, 35—36.

Carlier, L., Lutte contre le mildiou et la tavelure. Rev. agric. Afr. Nord 50. 1952, 352.

Dusserd, R., Le plomb parasitaire des arbres fruitiers. [Stereum purpureum] Tarn-et-Garonne agric. 15. 1952, 189—190.

Edwards, R. W., and Barkley, F. A., Studies on Monilia. Lloydia, Cincinnati (Ohio), 15. 1952, 37—38.

Fisher, E. E., Wood-rotting fungi of fruit trees. J. Dept. Agric. Victoria 50. 1952, 185—186.

Goidànich, G., (Root rot of fruit from Armillaria and Rosellinia.) Inform. Fitopat., Bologna, 2. 1952, 104—109.

Govi, G., Due specie di Cylindrocarpon isolate da fruttiferi. (Two species of Cylindrocarpon on fruit trees.) Ann. Sperim. agr., Roma, 6 (n. ser.). 1952, 793—804, 7 fig., 2 tab.

Graser, H. I., Brown rot control uncertain. West. Fruit Grower, San Francisco, 6. 1952, nr. 10, p. 25—26.

Harder, A., Sind die Bienen an der Übertragung und Verbreitung der Fruchtmonilia beteiligt? Schweiz. Ztschr. Obst-, Weinbau 61. 1952, 541—543, 2 Abb.

Jenkins, P. T., Armillaria on fruit trees. [A. mellea] J. Dept. Agric. Victoria 50. 1952, 88—90.

Kröber, H., Beiträge zur Biologie der Kern- und Steinobstmonilia. Höfchen-Briefe 5. 1952, 171—217, 15 Abb.

Marsh, R. W., Field observations on the spread of Armillaria mellea in apple orchards and in a black-currant plantation. Trans. brit. mycol. Soc. 35. 1952, 201—207, 3 fig.

Müller, F. P., Der Wurzelkropf der Obstbäume. Kleingärtner u. Siedler 6. 1952, 35, 1 Abb.

Müller, H., Die Monilia-Krankheit der Obstbäume. Biol. Bundesanst., Braunschweig, Flugbl. K 5. 1952, 6 S., 6 Abb.

Sala, R., El moho de las manzanas y de las peras. [Sclerotinia fructigena] Cultivador mod., Barcelona, 35. 1952, 133—134.

Watanabe, B., and Takaki, H., (On the investigation of Rosellinia root rot disease in orchard.) Kyushu Noji Shikenjo 10. 1952, 156—157.

Unkräuter
Weeds — Mauvaises herbes

Bryant, L. R., and Rasmussen, L. W., Cultivation, 2, 4-D in fall kill bindweed in orchard. Better Fruit, Portland, 46. 1952, nr. 8, p. 40.

Ellenwood, C. W., and Willard, C. J., Poison ivy (Toxicodendron radicans) in orchards reduced by spraying. Ohio Farm, Home Res. (Ohio Stat.) 37. 1952, 19, 28.

Harvey, W. A., Weed control in orchards. Fruit Grower, London, 6. 1952, nr. 11, p. 11—12.

Morita, S., and Aoki, A., The effect of 2, 4-D on the microbial action in orchard soils. Saikyo Univ. Fac. Agric. sci. Rept. 2. 1952, 1—4.

d. Tierische Feinde
Animal parasites — Parasites animaux

Allgemeiner Teil
General part — Partie générale

Bachmann, F., und Vogel, W., Das starke Auftreten von Raupenschädlingen im Fricktal. Schweiz. Ztschr. Obst-, Weinbau 61. 1952, 374—376.

Della Beffa, G., (Improvement of Piedmont fruit culture; control of fruit worms.) [Contarinia pyrivora, Hoplocampa brevis] Cron. econ. (Italia) 112. 1952, 13—14.

Hill, H. C., Insect problems in 1951. Virginia Fruit (Virginia State hortic. Assoc.) 40. 1952, nr. 2, p. 130—132.

Houtman, G., (Noxious bugs and their control. I—II.) Fruitteelt, Arnhem, 42. 1952, 260—262, 296—297.

LaPlante, A. A., Fruit insect activity for the year 1952. Proc. New York State hortic. Soc. 98. 1952, 259—271.

Marshall, J., Applied entomology in the orchards of British Columbia, 1900—1951. Proc. ent. Soc. brit. Columbia 48. 1952, 25—31.

Massee, A. M., Entomology. East Malling Res. Stat. Ann. Rept. 1951 (39). 1952, 43—45.

Mussche, L., (Injuries to fruit trees by bugs.) Tuinbouwberichten 16. 1952, 155.

Reich, H., Der augenblickliche Stand der Bekämpfung von Blattlaus und Roter Spinne im Erwerbsobstbau. Mitt. Biol. Zentralanst. H. 74. 1952, 72—75.

Reich, H., Die Ergebnisse der Zweiguntersuchungen auf die Eiablagen der wichtigsten tierischen Schädlinge. Mitt. Mitgl. Obstbauvers.ring Altes Land usw., Jork, 7. 1952, 48—51.

Nematodes

Allen, M. W., Nematode parasites of trees and vines. West. Fruit Grower, San Francisco, 6. 1952, nr. 2, p. 33—37.

Heteroptera

Borden, A. D., Madsen, H. F., and Retan, A. H., A stink bug, Euschistus conspersus, destructive to deciduous fruits in California. J. econ. Ent. 45. 1952, 254—257, 3 fig.

Dürr, H. J. R., An apparently new insect pest of fruit. [Serinetha hexophthalma] Farming South Afr. 27. 1952, 293—294.

Dürr, H. J. R., A fruit pest which is apparently new. [Serinetha hexophthalma] Deciduous Fruit Grower 2. 1952, nr. 2, p. 17—18.

Homoptera

Dähn, Achtet auf die Blutlaus! Saarländ. Bauernbl. 6. 1952, 143, 3 Abb.

Maurer, K. J., Die Blutlaus. Obst- u. Gartenbau, Stuttgart, 7. 1952, 51—52, 2 Abb.

May, A. W. S., The grape scale [Eulecanium persicae]. Queensland agric. J. 75. 1952, 105—107.

Preseren, T., (An enemy of fruit trees which is here still little known.) [Ceresa bubalus] Sadjarstvo Vinarstvo Vrtnarstvo (Yugoslavia) 4. 1952,103—105.

Schütze, E., Die Läuseplage im Obstbau. Mitt. Mitgl. Obstbauvers.ring Altes Land usw., Jork, 7. 1952, 51—52.

Stephan, F., Zwei Hauptfeinde im Obstbau. [Xyleborus dispar, Lecanium corni] Bauer (Österr.) 5. 1952, Nr. 10, S. 10—12.

Die **Blattlausplage** und ihre Bekämpfung. Obstbau 71. 1952, 72—73, 4 Abb.

Die **Gelbe austernförmige Schildlaus.** [Aspidiotus ostraeformis Curt.] Pflanzenarzt, Wien, 5. 1952, Nr. 1, S. 7, 1 Abb.

Rote austernförmige Schildlaus. [Epidiaspis betulae Bär.] Pflanzenarzt, Wien, 5. 1952, Nr. 4, S. 7, 1 Abb.

Quadraspidiotus (Aspidiotus) perniciosus

Baas, J., Der San-José-Begehungsdienst. Kleingärtner 6. 1952, Nr. 1, 1 S., 4 Abb.

Baas, J., Die San-José-Schildlaus. Mitt. dtsch. Landw.-Ges., Frankfurt/M., 67. 1952, 192—193, 3 Abb.

Baas, J., San-José-Schildlaus und Begehungsdienst. Hess. Obstbau 7. 1952, 41.

Bollow, H., Ein neuer San-José-Schildlausfund in Bayern. Pflanzenschutz, München, 4. 1952, 115.

Bongiovanni, G. C., La lotta contro le cocciniglie. Quadraspidiotus perniciosus] Inform. Fitopat., Bologna, Pubbl. quindic. (Gr. II), 2. 1952, 1—4, 4 fig.

Coda, T., (Control of Aspidiotus perniciosus is a problem of professional conscience and drastic application of existing laws.) Mondo agric. (Italia) 3. 1952, nr. 13, p. 4.

Creuzburg, U., Nochmals Abflammversuch gegen San-José-Schildlaus. Ztschr. Pfl.krankh. 59. 1952, 223.

Hillebrand, K., Die San-José-Schildlaus (Aspidiotus perniciosus) bedroht den Obstbau! Landw. Wochenbl. Westf., Lippe 109A. 1952, 367.

Leib, Wie steht es um die San-José-Schildlaus? Saarl. Bauernbl. 2. 1948, Nr. 11, S. 5.

Mallach, N., Die San-José-Schildlaus in Bayern. Pflanzenschutz, München, 4. 1952, 76—78.

Marek, J., Über passive Verbreitung der San-José-Schildlaus durch einheimische Ameisen. Ztschr. Pfl.bau, -schutz 3. 1952, 254—263, 2 Abb.

Müller, F. P., Die San-José-Schildlaus. Biol. Zentralanst. Berlin Flugbl. Nr. 7. 1952, 21 S., 13 Abb., 1 Farbtaf.

Müller, F. P., Die San-José-Schildlaus kommt! Kleingärtner u. Siedler 6. 1952, 84, 1 Abb.

Solaroli, V., and Bongiovanni, G. C., (Tests for winter control of Quadraspidiotus perniciosus Comst. (fourth contribution).) Agric. ferrarese (Italia) 56. 1952, 61—67.

Strukan, D., (A contribution to the understanding of California scale (Aspidiotus perniciosus Comst.) in our area!) Biljna Proizvodnja (Pflanzenbau), Zagreb, 5. 1952, 282—285.

Thiem, H., Die San-José-Schildlausgefahr und ihre Überwindung. Höfchen-Briefe 5. 1952, 42—43.

Thiem, H., Über das Auftreten der San-José-Schildlaus in den USA. Nachr.bl. dtsch. Pfl.schutzd., Braunschweig, 4. 1952, 31.

Vasseur, R., Schvester, D., et Bianchi, H., Sur l'effet aphicide de certains traitements contre le pou de San-José (Quadraspidiotus perniciosus Comst.). Ann. Épiphyties, Paris, 3. 1952, 339—350, 4 fig.

Weinzierl, R., San-José-Schildlaus [Aspidiotus perniciosus] noch immer Erbfeind unseres Obstbaues. Landwirtschaft, Wien, 11/14. 1952, 195.

Wilkins, V. E., San-José-scale in Western Europe in 1951. FAO Plant Prot. Bull. 1. 1952, 4—7.

Muß und kann die San-José-Schildlaus bekämpft werden? [E 605] »Bayer«-Pflanzenschutz, Leverkusen 1952? 6 S., 2 Abb., 1 Farbtaf.

Coleoptera

Brandt, H., Die Obstbaumborkenkäfer und ihre Bekämpfung. Pflanzenschutz, München, 4. 1952, 29—32, 13 Abb.

Brauns, A., Vorbeugende Maßnahmen gegen die Ausbreitung der Obstbaumsplintkäfer. [Scolytus mali, S. rugulosus] Norddtsch. Holzw. 6. 1952, nr. 32, p. 7.

Brauns, A., Zur Frage der Bockkäferschäden in Obstbäumen. [Cerambycini] Nachr.bl. dtsch. Pfl.schutzd., Braunschweig, 4. 1952, 66—67.

Chrestian, P., Résultats acquis dans la lutte contre le capnode. [Capnodis tenebrionis] Fruits et Primeurs de l'Afrique du Nord 22. 1952, 376—381.

Chrestian, P., Résultats acquis dans la lutte contre le capnode [Capnodis tenebrionis] état actuel de la question. Fruits 7. 1952, 199—207.

Courty, C., Sur la lutte contre le Capnodis tenebrionis. Compt. rend. Acad. Agric. France 39. 1952, 654—656.

Lloyd, N. C., The fruit tree bud weevil. [Perperus vermiculatus] Agric. Gaz. New South Wales 63. 1952, 90—92, 99.

Roehrich, R., Sur la régime alimentaire des adultes de Cantharis obscura L., téléphore nuisible aux arbres fruitiers dans la région de Vic en Bigorre (Hautes Pyrénées). Ann. Épiphyties, Paris, 3. 1952, 329—337, 2 fig.

Rossi, J., La lutte contre le capnode. [Capnodis tenebrionis] Rev. agric. Afr. Nord 50. 1952, 368—372.

Stangl und Flach, Zur Bekämpfung von Tropinota hirta Poda. Pflanzenschutz, München, 4. 1952, 97—98, 2 Abb.

Stephan, F., Zwei Hauptfeinde im Obstbau. [Xyleborus dispar, Lecanium corni) Bauer (Österr.) 5. 1952, Nr. 10, S. 10—12.

Rauhhaariger Rosenkäfer (Tropinota hirta Poda). Pflanzenarzt, Wien, 5. 1952, Nr. 12, S. 7, 1 Abb.

Lepidoptera

Bachmann, F., Möglichkeiten für die Bekämpfung der Miniermotte. Schweiz. Ztschr. Obst-, Weinbau 61. 1952, 75—77, 1 Abb.

Barth, E., Achtet auf die Raupengespinste des Goldafters! Württ. Wochenbl. Landw. 119. 1952, 1000, 1 Abb. — Bad. landw. Wochenbl. 119. 1952, 895.

Bender, E., Der Wickler Capua reticulana. Bad. Obst-, Gartenbau 5. 1952, 177—178.

Bradley, J. D., Adoxophyes orana (Fischer von Roeslerstamm, 1834) (Lepidoptera: Tortricidae). Entomologist, London, 85. 1952, 1—4.

Dicker, G. H. L., and Briggs, J. B., A note on the small ermine moth, Yponomeuta padella malinella Zell. East Malling Res. Stat. Ann. Rept. 1951 (39). 1952, 172—173, 1 tab.

Ferrière, Ch., Parasites de Lyonetia clerckella en Valais (Hym. Chalcidoidea). Mitt. schweiz. ent. Ges. 25. 1952, 29—40, 8 fig.

Gentilucci, T., (The green Tortrix [Cacoecia] of fruit trees.) Inform. Fitopat., Bologna, 2. 1952, 111—112.

Gough, H. C., The Tortrix Cnephasia longana on fruit trees in Essex. Plant Path., London, 1. 1952, 31, 1 tab.

Groves, J. R., A preliminary account of the summer fruit tortricid, Adoxophyes orana (F. R.), in Great Britain. East Malling Res. Stat. Ann. Rept. 1951 (39). 1952, 152—154, 2 tab.

Groves, J. R., The summer fruit tortricid. Gard.' Chron., London, 131. 1952, 18, 2 fig.

Houtman, G., (The bark injuring moth (Grapholitha woeberiana Schiff.).) Fruitteelt, Arnhem, 42. 1952, 574—575.

Houtman, G., Lyonetia clerkella L. Fruitteelt, Arnhem, 1952, 541—543.

Jancke, O., Massenauftreten des Goldafters. [Euproctis chrysorrhoea] Gesunde Pflanzen 4. 1952, 53—55, 3 Abb.

Janežić, F., Still another fruit enemy. [Hyphantria cunea] Sadjarstvo, Vinarstvo in Vrtnarstvo (Yugoslavia) 4. 1952, 136—137.

Nizamlïoğlu, K., ve **Unat, N.,** Malacosoma neustrianïn Kocaeli bölgesindeki epidemik inkişafi ve crisis. (Epidemische Entwicklung und Krisis von Malacosoma neustria im Gebiet von Kocaeli.) Tomurcuk, Istanbul, 1952, nr. 6, p. 8.

Petrik, C., Dudovac i Njegovo Suzbijanje. (Der Weiße Bärenspinner und seine Bekämpfung.) [Hyphantria] Zadružna Knjiga, Beograd 1952. 2., rev. ed., 64 p., 25 fig.

Portman, R. W., Fruit insects. [Lepidoptera] Trans. Idaho State hortic. Soc. 1952, 4—6.

Pschorn-Walcher, H., Heimtückische Gespinstinsassen. [Euproctis chrysorrhoea] Pflanzenarzt, Wien, 5. 1952, Nr. 10, S. 4—5.

Rath, Der Weiße Bärenspinner (Hyphantria cunea), ein neuer Obstbaumschädling. Illustr. Flora, Wien, 75. 1952, 67—68.

Servadei, A., (Fruit tree borers (Cossus cossus and Zeuzera pyrina).) Inform. Fitopat., Bologna, 2. 1952, 146—148.

Stephan, F., Wieder ein neuer Obstbaumschädling. [Hyphantria cunea] Obst- u. Gartenbau, Stuttgart, 7. 1952, 29.

Leimringe überflüssig? Zentralbl. dtsch. Erwerbsgartenbau 4. 1952, Nr. 36, S. 6.

Vos fruits sont-ils attaqués par la tordeuse orientale du pêcher ou par la mouche méditerranéenne? [Laspeyresia molesta] Rev. rom. Agric., Vitic., Arboric. 8. 1952, 72, 2 fig.

Diptera

Avidov, Z., and **Swirski, E.,** Laboratory tests on the effect of chlorinated hydrocarbon compounds on the mediterranean fruit fly. Ktavim, Rec. agric. Res. Stat., Rehovoth (Israel), 2—3. 1952, 53—56.

Bess, H. A., Fighting the fruit flies. Hawaii Farm Sci. (Hawaii Stat.) 1. 1952, nr. 1, p. 7—8.

Blanck, A., La mouche des fruits (Ceratitis capitata) hiverne-t-elle en France? Phytoma, Paris, 5. 1952, nr. 39, p. 13—17, 1 tab. geogr., 2 fig.

Boselli, F., Esperimenti di lotta con DDT contro la Ceratitis capitata Wied. in Sardegna nel 1951.(Experiments on use of DDT against Ceratitis capitata Wied. in Sardinia in 1951.) Ann. Sperim. agr., Roma, 6 (n. ser.). 1952, 1011—1020.

Carter, W., The oriental fruit fly. [Dacus dorsalis] US Dept. Agric. Yearb. Agric. 1952, 551—559, 2 fig.

Carter, W., Recent developments in oriental fruit fly research. J. econ. Ent. 45. 1952, 274—279.

Clancy, D. W., Marucci, P. E., and **Dresner, E.,** Importation of natural enemies to control the oriental fruit fly in Hawaii. J. econ. Ent. 45. 1952, 85—90.

Coda, T., (Among the enemies of plants, the mediterranean fruit fly (Ceratitis capitata Wied.).) Mondo agric. (Italia) 3. 1952, nr. 14, p. 3.

Costantino, G., La lutte contre la mouche des fruits (Ceratitis capitata Wied.). Fruits, Primeurs Afr. Nord, Casablanca, 22. 1952, 201—204.

Darmis, J., Control of the mediterranean fruit fly with dieldrin. [Ceratitis capitata] Agric. Bull. (Shell) ADB. 233. 1952, 2 p.

Del Cañizo, J., La mosca de las frutas. [Ceratitis capitata] Minist. Agric., Madrid, Hojas Divulg. 24—52 H. 1952, 12 p.

Di Martino, E., Ancora una prova die lotta contro la mosca delle frutta. (Another test on mediterranean fruit fly control.) Ann. Sperim. agr., Roma, 6 (n.ser.). 1952, 5—14.

Féron, M., Observation sur le parasitisme de Ceratitis capitata Wied. dans le sous Marocain. Rev. Path. vég., Ent. agric. France 31. 1952, 99—102.

Fullaway, D. T., Fruit fly parasites collected in Queensland by N. L. K. Krauss in 1949 (Hymenoptera: Braconidae). Proc. hawaii. ent. Soc. 14 (1949). 1950, 65—67.

Gómez Clemente, F., y **Planes García, S.,** Algunas notas sobre la ecología de Ceratitis capitata en el Levante español sobre naranjos. Bol. Pat. veg., Ent. agríc., Madrid, 19. 1951—52, 37—48, 7 fig.

González Mendoza, R., Algunas investigaciones relativas a la mosca de las frutas y cerezas de cafe (Anastrepha spp.). Bol. Inform. Centro Nac. Invest. Café (Colombia) 3. 1952, nr. 32, p. 32—35.

Hering, E. M., Fruchtfliegen (Trypetidae) von Indonesien (Dipt.). (47. Beitrag zur Kenntnis der Trypetidae.) Treubia, Buitenzorg, 21. 1952, 263—290.

Mellini, E., (The fruit fly (Ceratitis capitata Wied.).) Inform. Fitopat., Bologna, 2. 1952, nr. 5, p. 4—5.

Mitjans Escala, J., Experiencias en la lucha contra la »Ceratitis capitata«, mosca de la fruta, en Begas (III zona agricola). Bol. Cam. Ofic. Sind. Agr. Barcelona 7. 1952, 139—140.

Nijveldt, W., Galmuggen van cultuurgewassen. I. Galmuggen van fruitgewassen. Tijdschr. Plantenziekten 58. 1952, 61—80, 28 fig. (Inst. plantenziektenkdg. Onderz., Wageningen, Meded. nr. 41).

Okudai, S., (On the effect of high pressure mercury vapour light traps in controlling the oriental fruit moth. I.) Bull. hortic. Div. Tôkai-Kinki agric. Exp. Stat. nr. 1. 1952, 142—158.

Richardson, H. P., Robinson, A. G., and **Allen, W. R.,** Chemical control of the currant fruit fly, Epochra canadensis Loew (Diptera: Trupaneidae), in Manitoba. Ontario ent. Soc. Ann. Rept. 82 (1951). 1952, 29—33.

Riveros, J. E., La lucha contra la mosca de la fruta (Ceratitis capitata). Vino, Viñas, Frutas, Buenos Aires, 48. 1952, 117—119, 121.

Roan, C. C., Reactions of oriental fruit fly to high temperatures and various relative humidities. J. econ. Ent. 45. 1952, 920—925, 8 fig.

Roan, C. C., Tagging oriental fruit flies with radioactive phosphorus for field-movement studies. J. econ. Ent. 45. 1952, 826—828, 2 fig.

Rosillo, A., Ensayos de attración de moscas de la fruta con distintos cebos. IDIA (Inform. Invest. agríc.), Buenos Aires, 5. 1952, nr. 58, p. 20.

Sacantanis, K., Études et observations sur les substances attractives pour Ceratitis capitata. Compt. rend. Acad. Agric. France 38. 1952, 53—55.

Sacantanis, K., L'influence de l'humidité sur l'incubation des œufs de la mouche des fruits (Ceratitis capitata Wied.) (Diptera, Trypetidae). Trans. IXth int. Congr. Ent., Amsterdam, 1 (1951). 1952, 460—464.

Steiner, L. F., and **Hinman, F. G.,** Field tests of insecticides for control of oriental fruit fly. J. econ. Ent. 45. 1952, 388—395.

Steiner, L. F., Methyl eugenol as an attractant for oriental fruit fly. J. econ. Ent. 45. 1952, 441—248.

Syngrassides, A. J., Experiments on mediterranean fruit fly. [Ceratitis capitata] Countryman, [Nicosia], 6. 1952, nr. 6, p. 14—17.

Van den Bosch, R., Oriental fruit fly [Dacus dorsalis] parasites; biological control of damaging pest established in Hawaii diminishes threat to mainland's fruit production. Calif. Agric., Berkeley, 6. 1952, nr. 7, p. 13.

Van den Bosch, R., Oriental fruit fly [Dacus dorsalis] parasites in Hawaii. Citrus Leaves 32. 1952, nr. 6, p. 12.

Varela, A., La mosca oriental de la fruta es un problema internacional. Fitófilo, San Jacinto (México), 6. 1952, nr. 6, p. 5—10.

Varela, A., La mosca oriental de la fruta, problema internacional. [Dacus dorsalis] Tierra, México, 7. 1952, 394—397.

Varela, A., and **Compton, G. C.,** Menace from the East; Oriental fruit fly [Dacus dorsalis] threatens agriculture in the Americas. Américas 4. 1952, nr. 11, p. 13—15.

Vasseur, R., La mouche méditerranéenne des fruits dans la region lyonnaise. [Ceratitis capitata] Pomol. franç., Lyon, 79. 1952, 47—52.

Vergani, A. R., La mosca del mediterráneo, Ceratitis cipitata (Wied.). Publ. argent. Inst. Sanid. veg. (Ser. B) 8. 1952, nr. 22, p. 17.

Vieira, R., (The fruit fly (Ceratitis capitata) — its economic importance in Madeira.) Frutas Madeira 12. 1952, 221, 224—225.

Vieira, R., (Packing of fruit as preventive in the control of »fruit fly« (Ceratitis capitata).) Frutas Madeira 12. 1952, 216—217.

Vos fruits sont-ils attaqués par la tordeuse orientale du pêcher ou par la **mouche méditerranéenne**? [Ceratitis capitata] Rev. rom. Agric., Vitic., Arboric. 8. 1952, 72, 2 fig.

Hymenoptera

Zander, E., (Do bees damage flowers, fruit and berries?) Bitidningen (sver. biodl. Riksförb.) 50. 1951, 5—8.

Kampf gegen die Wespenplage. Obstbau 71. 1952, 90—91, 6 Abb.; 125.

Arachnoidea

Becker, H., Über den Einfluß konstanter Temperaturen, relativer Luftfeuchtigkeiten und Licht auf die Frühjahrsentwicklung der Wintereier der Obstbaumspinnmilbe Paratetranychus pilosus Can. et Franz. Anz. Schädl.kunde 25. 1952, 116—118, 5 Abb.

Collyer, E., Beneficial fruit insects: predators. I. [Blepharidopterus angulatus in control of the fruit tree red spider mite Metatetranychus ulmi in England] Grower, Londen, 39. 1952, 635.

Fjelddalen, J., Midder pá frukttraer og baervekster. Biologi og bekjemping. Frukt og Baer (Norge) 1952, 56—72.

Gerritsen, J. D., De natuurlijke vijanden van de vruchtboomspintmijt. (The natural enemies of the fruit tree red spider mite.) [Paratetranychus pilosus] Fruitteelt, Arnhem, 42. 1952, 27.

Hueck, H. J., Kuenen, D. J., den Boer, P. J., and **Jaeger-Draafsel, E.,** The increase of egg production of the fruit tree red spider mite (Metatetranychus ulmi Koch) under influence of DDT. Physiol. comp., Oecol., Den Haag, 2. 1952, 371—377.

Morgan, C. V. G., Effects of low winter temperatures on some orchard mites. Proc. ent. Soc. brit. Columbia 48 (1951). 1952, 90—93.

Newcomer, E. J., and **Dean, F. P.,** Orchard mites resistant to parathion in Washington. J. econ. Ent. 45. 1952, 1076—1078.

Pritchard, A. E., and **Baker, E. W.,** A guide to the spider mites of deciduous fruit trees. [twelve species in Bryobia, Metatetranychus, Paratetranychus, Eotetranychus, and Tetranychus] Hilgardia, Berkeley, 21. 1952, 253—287.

Roesler, Über schädliche Spinnmilben an Obstbäumen in der Pfalz. Mitt. Biol. Zentralanst., Berlin-Dahlem, H. 74. 1952, 75—77.

Taylor, G. G., Spray treatments for control of red mites in apple orchards. [Paratetranychus pilosus, Bryobia praetiosa] New Zealand J. Sci., Technol. A 34. 1952, 36—46.

Tunblad, B., Nya bekämpningsförsök mot rött spinn. Växtskyddsnotiser, Stockholm, 16. 1952, 49—51.

Tunblad, B., Till bekämpningen av rött spinn. Växtskyddsnotiser, Stockholm, 16. 1952, 12—14.

Tunblad, B., Ytterligare erfarenheter om spinnmedel. Växtskyddsnotiser, Stockholm, 16. 1952, 82—84.

Weinman, C. J., Hamilton, D. W., and **Cutright, C. R.,** Mites in the orchard. Proc. amer. Assoc. econ. Entomologists, North Centr. States Br., 7. 1952, 15—17.

Vertebrata

Drobnic, A., (Meadow mouse in fruit growing.) Sadjarstvo, Vinarstvo, Vrtnarstvo (Yugoslavia) 4. 1952, 169—171.

Fitzwater jr., W. D., New method for control of orchard mice. New Jersey State hortic. Soc. News 33. 1952, 2460—2461, 2466.

Lawrence, J. E., Orchard safeguards against winter's wildlife. Rural New-Yorker 102. 1952, 6—7.

Löhrl, H., Brauchen wir noch Starenhäuschen? Württ. Wochenbl. Landw. 119. 1952, 12—13.

Thompson, H. V., and **Armour, C. J.,** Rabbit repellents for fruit trees. Plant Path., London, 1. 1952, 18—22, 2 fig., 1 tab.

Whiffin, H. J., Rabbit damage: what precautions to take. Fruit Grower, London, 2923. 1952, 12—13.

Wie schützen wir unsere jungen Obstbäume gegen Wildverbiß? Obstbau 71. 1952, 165, 1 Abb.

e. Virus

Bömeke, H., Über Virus- und virusverdächtige Krankheiten im niederelbischen Obstanbaugebiet. Mitt. Mitgl. Obstbauvers.ring Altes Land usw., Jork, 7. 1952, 126—139, 24 Abb.

Bonz, G., Viruserkrankungen an den Obstbäumen. Obstbau 71. 1952, 36, 1 Abb.

Goidànich, G., (Grave danger to fruit culture: virus diseases.) Giorn. agr., Roma, 62. 1952, 159.

Hallemans, A., (A few new fruit parasites of current interest.) [chiefly viruses] Cult. en Handel 18. 1952, 449—451.

Harris, R. V., The maintenance of healthy fruit clones. [virus diseases] 13th int. hortic. Congr., London, Mimeogr. Pap. 1952, 12.

Loewel, E. L., Virus-Krankheiten im Obstbau. Mitt. Mitgl. Obstbauvers.ring Altes Land usw., Jork, 7. 1952, 126.

Posnette, A. F., and **Harris, R. V.,** Virus diseases of fruit crops. Nature, London, 170. 1952, 181—182.

Stanković, D., (Production of healthy planting material as the chief means for prevention of the spread of virus diseases of fruit trees.) Vojvodanski Poljoprivrednik (Yugoslavia) 8. 1952, nr. 12, p. 11—12.

Tucker, B. D. A., Virus diseases in soft fruit. Grower, London, 37. 1952, 743, 745, 747, 749.

Wolfe, H. R., and **Anthon, E. W.,** Insects help spread tree virus diseases. Better Fruit, Portland, 46. 1952, nr. 11, p. 11—12, 35.

f. Schädlingsbekämpfung an Obstbäumen
Fruit-trees protection
Lutte contre les parasites des arbres fruitiers

(Siehe auch — see also — voyez aussi p. 319.)

Aichele, H., Untersuchungen über die Frostschutzwirkung eines Kalkanstrichs an Obstbäumen. Ber. dtsch. Wetterd. US-Zone Nr. 32. 1952, 70—73, 5 Abb.

Allen, M. W., Root knot and root lesion nematodes; soil fumigation reduces infestations but can not be used in growing orchards or vineyards. Calif. Agric., Berkeley, 6. 1952, nr. 5, p. 8—9, 14.

Andes, J. O., Fruit fungicide summary — 1952. Proc. Tennessee State hortic. Soc. 47. 1952, 37—39.

Andrén, F., Bekämpningsmedel mot fruktträdsskorv. Växtskyddsnotiser, Stockholm, 16. 1952, 65—69, 1 fig.

Asquith, D., and **Lewis, F. H.,** Concentrate spraying of fruit in Pennsylvania. Hortic. News (New Jersey State hortic. Soc.) 33. 1952, 2500—2501, 2510.

Asquith, D., Lewis, F. H., and **Hewetson, F. N.,** Fruit research at Arendtsville. Pennsylv. agric. Exp. Stat. Bull. 553 (Suppl. 1). 1952, 1—3.

Bargioni, G., (Spring fruit treatment commonly used in commercial fruit culture in Ferrara.) Riv. Ortoflorofruttic. ital. 36. 1952, 81—82.

Bargioni, G., Guizzardi, G., and **Maccanti, M.,** (Attempts at control of red spider on fruit trees, Paratetranychus pilosus Ca. et Fanz. (i. e. Metatetranychus ulmi Koch].) Riv. Ortoflorofruttic. ital. 36. 1952, 263—271.

Barth, E., Bekämpft jetzt den Frostspanner! Württ. Wochenbl. Landw. 119. 1952, 923. — Bad. landw. Wochenbl. 119. 1952, 895.

Barth, E., Ist die Winterspritzung im Obstbau überhaupt nötig? Württ. Wochenbl. Landw. 119. 1952, 1105.

Barth, E., Nachblütespritzungen und Obstmadenbekämpfung. Württ. Wochenbl. Landw. 119. 1952, 452.

Beaulieu, A. A., and **Petch, C. E.,** The control of orchard insects in 1952. Quebec (Prov.) pomol., Fruit Growing Soc. Ann. Rept. 1951. 1952, 71—76.

Beran, F., Ist die Winterspritzung im Obstbau noch zeitgemäß? Pflanzenarzt, Wien, 5. 1952, Nr. 11, S. 1—3.

Bieri, F., Versuche zur Leistungssteigerung beim Bespritzen der Obstbäume. Schweiz. Ztschr. Obst-, Weinbau 61. 1952, 147—151, 1 Abb.

Besemer, A. F. H., and **Wegenaar, C.,** Once more a test year for mist spraying in fruit culture. Fruitteelt, Arnhem, 42. 1952, 146—148.

Bömeke, H., Die Blütezeit als Spritztermin erhöht den Erfolg und vermindert die Anzahl der Spritzungen! Mitt. Mitgl. Obstbauvers.ring Altes Land usw., Jork, 7. 1952, 58—65, 10 Abb.

Borden, A. D., Spray chemical concentrates. West. Fruit Grower, San Francisco, 6. 1952, nr. 2, p. 42—43.

Borden, A. D., Spray chemical concentrations; recommendations for bulk, semiconcentrate, concentrate methods of spray application on deciduous fruit trees. Calif. Agric., Berkeley, 6. 1952, 11—13.

Brandt, H., Obstbaumspritzungen im Kleingarten und bäuerlichen Betrieb. Pflanzenschutz, München, 4. 1952, 1—3.

Branzanti, E. C., (Control measures for diseases and pests of fruit.) Riv. Fruttic., Ravenna, 14. 1952, 74—86.

Bravenboer, L., (Disease control in fruit culture under glass.) Fruitteelt, Arnhem, 42. 1952, 152—153.

Brook, M., New fruit fungicides. North. Gardr., Manchester, 6. 1952, 10—11.

Brown, I. L., Efficient application of sprays. Fruit and Prod. (Auckland) 7. 1952, nr. 7, p. 15—17.

Byrde, R. J. W., Experiments on the control of brown rot of apples and plums. I-III. Spraying trials. [Sclerotinia fructigena, S. laxa] J. hortic. Sci., London, 27. 1952, 130—144, 192—200, 237—244, 2 tab.

Calvet, C., Les essais de traitements à l'École Agriculture de Saintes réalisés en 1951 sur les arbres fruitiers. Paysan franç. 27. 1952, nr. 410, p. 9—10.

Cano, F., (Insecticidal efficiency for winter treatments of some oils distilled from petroleum.) Riv. Ortofloroffruttic. ital. 31. 1952, 34—38.

Carman, G., Ewart, W. H., Jeppson, L. R., Atkins, E. L., and **Ortega, J. C.,** Parathion use. Citrus Leaves 32. 1952, 26—28, 42.

Chapman, P. J., Riehl, L. A., and **Pearce, G. W.,** Oil sprays for fruit trees. US Dept. Agric. Yearb. Agric. 1952, 229—239.

Ciferri, F., Rapporti tra trattamenti invernali ai fruttiferi ed idratazione dei rametti. (Relations between winter sprays of fruit trees and water content of branchlets.) Not. Mal. Piante nr. 18. 1952, 20—26.

Clark, L., First the blossom, then the fruit. [spraying] Farmers' Weekly, London, 36. 1952, nr. 10, p. 71, 73.

Clerens, A., (Recent preparations for the control of parasites on fruit trees.) Tuinbouwberichten 16. 1952, 185—186.

Conrad, W., Möglichkeiten der Schädlingsbekämpfung im Winter. Mitt. dtsch. Landw.-Ges., Frankfurt/M., 67. 1952, Beil. »Das Reich der Landfrau«, S. 359—361, 9 Abb.

Dähn, G., Bekämpft die Rote Spinne! Saarl. Bauernbl. 6. 1952, 32, 1 Abb.

Dean, F. P., and **Newcomer, E. J.,** Further studies of orchard acaricides. J. econ. Ent. 45. 1952, 1038—1042.

De Jonge, C., (What has 1952 taught us?) Betuws Tuinbouwbl. (Nederland) 10. 1952, 4—5.

De Viguerie, P., Les traitements d'hiver des arbres fruitiers. Tarn-et-Garonne agric. (France) 15. 1952, 3—4.

Dierick, G. F. E. M., and **Dalmeyer, W. H. M.,** Spintbestrijding in nieuwe banen. (New ways of controlling red spider mite.) Fruitteelt, Arnhem, 42. 1952, 961—964, fig.

Dieter, C. E., Soil fumigation. Amer. Fruit Grower, Cleveland (Ohio), 72. 1952, nr. 3, p. 28—29.

Dobie, N. D., What's new in brown rot control. Proc. Oregon State hortic. Soc. 67. 1952, 87—89.

Drees, H., Winterspritzung im Obstbau. Raiffeisen-Rundschau 4. 1952, 23.

Duspiva, F., Der Einfluß der H-Ionen-Konzentration auf die Wirksamkeit der Winterspritzmittel im Obstbau. Mitt. Biol. Zentralanst. H. 74. 1952, 62—68, 5 Abb.

Feron, Nouveaux résultats d'essais de lutte contre le capnode (Capnodis tenebrionis L.) par le traitement du sol. Compt. rend. Acad. Agric. France 38. 1952, 715—718.

Fitzwater jr., W. D., Rodent control in the orchard. Michigan State hortic. Soc. Ann. Rept. 81 (1951). 1952, 50—54.

Fjelddalen, J., and **Ramsfjell, T.,** Spraying of fruit trees and berry bushes. Minneliste Hagedyrkere norske Hageselskap (Norge) 3. 1952, 29, 31, 33, 35—37.

Flipse, L. P., Handleiding bij de bespuiting van fruitgewassen. [guide for spraying fruit] Versl., Meded. plantenziektenkdg. Dienst, Wageningen, nr. 86. 1952, 63 p.

Fluke, C. L., Dever, D. A., and **McIntyre, C. B.,** The 1952 spray schedule for insect control in the orchard. Wisconsin Hortic. 42. 1952, 151.

Frickhinger, H. W., Crop protection in fruit cultivation. Übersee-Post 7. 1952, 72.

Fukuda, J., (Applications of folidol E-605 to scale insects in orchard.) J. Plant Prot., Tokyo, 41. 1952, 418—420.

Fukuda, J., and **Yokozawa, Y.,** (On the effectiveness of organic insecticides upon the injurious insects of various fruit trees.) J. hortic. Assoc. Japan 21. 1952, 3—13.

Fulkerson, J. F., The spray service for this season, 1952. Mountaineer Grower 22. 1952, nr. 190, p. 13—14.

Garman, P., Efficiency of various orchard spray machines. J. econ. Ent. 45. 1952, 345—346.

Garman, P., Tips on timing insect sprays. Amer. Fruit Grower, Cleveland (Ohio), 72. 1952, nr. 2, p. 17, 46—49.

Gasser, F., Der Pflanzenschutz im Obstbau. Seine gegenwärtige Lage und unerläßliche künftige Intensivierung. Dtsch. Landw. 3. 1952, 104—106, 1 Abb.

Gasser, R., Expériences sur la lutte contre les araignées rouges avec de nouveaux acaricides. 3. Congr. int. Phytopharm., Paris, Sept. 1952.

Geier, P., Le traitement d'hiver en arboriculture. Rev. rom. Agric., Vitic., Arboric. 8. 1952, 87—89.

Gentile, G., (Summer control of scale insects.) Fruttic. camp. (Italia) 2. 1952, nr. 11, p. 1.

Gerrits, C., (Disease control in fruit culture.) Betuws Tuinbouwbl. (Nederland) 10. 1952, nr. 3, p. 4.

Goltsmaier, O. P., (Experiment in combating the May beetle (Melolontha melolontha) in the fruit nurseries of the Berdski state farm.) Sad i Ogorod (Orchard and Garden) 5. 1952, 28—31.

Gómez Clemente, F., y **Planes García, S.,** Experiencias de lucha contra la Ceratitis capitata en melocotoneros por medio de mosqueros y pulverizaciones con insecticidas orgánicos clorados. Bol. Pat. veg., Ent. agríc., Madrid, 19. 1951—52, 107—134, 9 fig.

Gottwald, A., Versuche zur Bekämpfung der Wühlmäuse in Kehdinger Obstanlagen. Mitt. Mitgl. Obstbauvers. ring Altes Land usw., Jork, 7. 1952, 181—183, 1 Abb.

Gould, E., Fruit insects and diseases and their control. Mountaineer Grower 22. 1952, nr. 190, p. 8—13.

Hallemans, A., (How do I control?) [fruit diseases, pests, weeds] Cult. en Handel 18. 1952, 20—22.

Hallemans, A., (Our small fruit plants should be taken care of too.) [spraying] Cult. en Handel 18. 1952, 90—91.

Hallemans, A., (Recommendations in regard to the spraying calendar, 1952.) Cult. en Handel 18. 1952, 273.

Hallemans, A., (Reflections on the spraying calendar, 1952.) [insecticides] Cult. en Handel 18. 1952, 219—220.

Hansen, J. K., Winter spraying or not? [for insects on fruit] Haven, København, 52. 1952, 9—10.

Heddergott, H., Schädlingsbekämpfung im Obst- und Gemüsebau. Landw.verlag, Hiltrup bei Münster 1952? 17 S.

Helton, A. W., Controlling mildews in fruits. Idaho agric. Exp. Stat. Circ. 123. 1952, 4 p.

Helton, A. W., Maintaining high quality fruits through disease prevention. Trans. Idaho State hortic. Soc. 1952, 7—10.

Hepburn, G. A., Use of parathion in eastern Cape orchards. Citrus Grower, Port Elizabeth, 216. 1952, 4.

Hines, C., and **Murphree, L. C.,** Mississippi spray calendar; fruit pest control practices. Mississippi State Coll. Ext. Publ. 184 (rev.). 1952, 16 p. (formerly Circ. 114).

Hoffman, R. M., Carbamates an effective fungicide. West. Fruit Grower, San Francisco, 6. 1952, nr. 10, p. 27—29.

Horsfall jr., F., Windrows of orchard clippings and supplementary measures as mouse control. Virginia Fruit (Virginia State hortic. Assoc.) 40. 1952, nr. 2, p. 38—47.

Houter, J., en **Wegenaar, C.,** De nevelspuit in de fruitteelt. Tuinbouwgids, Den Haag, 1952, 410—411, 2 fig.

Houter, P., Wegenaar, C., and **Wichers, A. J.,** (Mist spraying in the orchard.) Groenten en Fruit 7. 1952, 620—622.

Houtman, G., (Worms in fruit and the use of lead arsenate, DDT and parathion.) Cult. en Handel 18. 1952, 337—338.

Hultsch, M., Die Winterspritzung und »Entrümpelung« der Obstbäume ist Pflicht! Pfl.schutzamt Sachsen-Anhalt Merkbl. Nr. 54. 1952, 5. Aufl., 6 S., 2 Abb.

Hunt, J. L., Summer control of red spider. [Paratetranychus pilosus] Fruit Grower, London, 2966. 1952, 793—794.

Hus, P., (At the beginning of the spraying season.) [insects] Fruitteelt, Arnhem, 42. 1952, 119—120, 126.

Hus, P., Bestrijding van ziekten en schadelijke dieren bij fruit. Tuinbouwgids, Den Haag, 1952, 417—432, 3 tab.

Hus, P., (Cost comes before profit.) [fruit diseases' control] Groenten en Fruit 7. 1952, 538—539.

Ikata, S., (Application of new organic fungicides on some fruit diseases.) J. Plant Prot., Tokyo, 34. 1952, 152—154.

Jacks, H., Compatibility of spray materials used in New Zealand on apricots. Orchardist New Zealand 25. 1952, nr. 2, p. 16—17.

Jensen, I. C. B., Organische Quecksilber-Präparate im dänischen Obstbau. Gesunde Pflanzen 4. 1952, 223—226.

Johansen, C., Mouse control in Yakima and Wenatchee Valley orchards with toxaphine. Proc. Washington State hortic. Assoc. 48. 1952, 80—82.

Kalchschmid, W., Zur Frage der Rentabilität der Sommerspritzungen im Obstbau. Pflanzenschutz, München, 4. 1952, 4—6, 4 Abb.

Kerstens, J. R., (Can parathion substitute for winter sprays?) Boer en Tuinder (Nederland) 5. 1952, nr. 260, p. 4.

Kharin, S. A., and **Kaplan, R. M.,** (A widegripping fire hose for spraying fruit crops.) Dokl. Vsesoiuzn. Akad. Sel'skohoz. Nauk im. V. I. Lenina (Proc. Lenin Acad. agric. Sci.) 17. 1952, nr. 7, p. 40—44.

King, H., The ABC's of spreaders, wetters, stickers. Amer. Fruit Grower, Cleveland (Ohio), 72. 1952, nr. 5, p. 24.

Kirchner, Die Berechnung der Spritzbrühenmenge bei der Winterspritzung der Obstbäume. Nachr.bl. dtsch. Pfl.schutzd., Berlin, NF. 6. 1952, 235—236.

Klauß, Mechanische Winterpflegemaßnahmen an unseren Obstbäumen. Saarländ. Bauernbl. 6. 1952, 231—232, 4 Abb.

Klett, W., Die wichtigsten Krankheiten und Schädlinge im Obstbau 1952. Empfehlungen zu ihrer Abwehr und Bekämpfung. Obstbau 71. 1952, 7, 10—11.

Knowlton, G. F., Edgecombe, S. W., Sorenson, C. J., Oberly, G. H., Wann, F. B., and **Cochran, G. W.,** Official fruit spray recommendations for Utah. Utah State agric. Coll. Ext. Circ. 150. 1952, 24 p.

König, A., Gewerbliche Schädlingsbekämpfung im Obstbau. Schädlingsbekämpfung 44. 1952, 132—134.

Korolewa, N. I., (How to protect the fruit orchards from the lesser apple worm.) [Grapholitha] Sad i Ogorod (Orchard and Garden) 8. 1952, 42—43.

Kotte, W., Letzte Winke zur Nachblütenspritzung! Bauernztg., Freiburg i. Br., 5. 1952, Nr. 17, S. 7, 18.

Kretschmer, G., Die praktische Durchführung der Obstbaumspritzungen. Dtsch. Bauernverlag, Berlin 1952. 79 S., 20 Abb.

Kretschmer, G., Vermeidet Schäden bei der Obstbaumspritzung durch sachgemäßen Einsatz der Spritzmittel! Dtsch. Landw. 3. 1952, 102—104.

Kriner, E. R., Dewey, J. E., and **Norton, L. B.,** Orchard evaluation of DDT formulations and DDT-acaricide combinations. J. econ. Ent. 45. 1952, 957—965.

Langeveld, D. W., De woelrat en zijn bestrijding. (The vole and its control.) [Arvicola terrestris] Fruitteelt, Arnhem, 42. 1952, 777—778, fig.

Lienk, S. E., Chapman, P. J., and **Myburgh, A.,** Evaluation of acaricides against three species of orchard mites. J. econ. Ent. 45. 1952, 292—297.

Lockwood, S., and **Weigle, C. G.,** Dormant spray schedules for deciduous fruit trees. Blue Anchor 29. 1952, nr. 4, p. 10—11.

Lockwood, S., and **Weigle, C. G.,** Spring spray schedules. Blue Anchor 29. 1952, 28—31.

Loewel, E. L., Vorschläge für die Schädlingsbekämpfung 1952, verbunden mit einem Spritztagebuch. Obstbauvers.ring Jork 1952. 32 p.

Loewel, E. L., und **Reich, H.,** Ergebnisse der Zweiguntersuchungen auf Schädlingseier im niederelbischen Obstanbaugebiet und die sich daraus ergebenden Folgerungen für die Obstbaumspritzung. Nachr.bl. dtsch. Pfl.schutzd., Braunschweig, 4. 1952, 153—156, 1 Abb.

Lustig, E., Schädlingsbekämpfung und bodenständiger Obstbau. Illustr. Flora, Wien, 75. 1952, 112—114.

Macer-Wright, D., The use of DDT in the orchard. Gardg. illustr., London, 69. 1952, 111.

Marr, G., Schädlingsbekämpfung im Obstbau. Die Spritzpläne des Pflanzenschutzamtes. Landw. Ztschr. Nord-Rheinprov. 119. 1952, 480—482, 2 Abb.

Michelbacher, A. E., and **Bacon, O. G.,** Selecting proper insecticides. West. Fruit Grower, San Francisco, 6. 1952, nr. 3, p. 41—42.

Michelbacher, A. E., Bacon, O. G., and **Wade, W.,** Aphid control effective, newer aphicides give good results applied alone or combined with codling moth spray. Diamond Walnut News 34. 1952, nr. 3, p. 4—5.

Mills, W. D., 1950 summary of results of fungicide tests on fruit and nut trees. Plant Dis. Reptr. Suppl. 210. 1952, 23—31.

Mills, W. D., and **LaPlante, A. A.,** 1952 spray schedules for tree fruits. New York agric. Coll. Cornell Ext. Bull. 812. 1952, 36 p.

Moore, M. H., Some thought on progress in fruit-spraying methods. J. Pk Adm. 17. 1952, 159, 161, 163, 165.

Moore, M. H., and **Kirby, A. H. M.,** Can the new organic fungicides help the fruit-grower? East Malling Res. Stat. Ann. Rept. 1951. 1952, 200—204.

Mosti, A., (Winter control of pests of fruit trees in Sarzana.) Spezia agric. (Italia) 7. 1952, 2.

Müller, F. P., Zur Winter- und Vorblütenspritzung. Kleingärtner u. Siedler 6. 1952, 38, 2 Abb.

Neame, C., Some experiences of low volume fruit tree spraying. Fruit Grower, London, 2949. 1952, 13—14.

Newcomer, E. J., Controlling orchard mites. Amer. Fruit Grower, Cleveland (Ohio), 72. 1952, nr. 2, p. 20—21.

Niven, L. A., Uninvited guests of garden and orchard. [insect control] Progr. Farmer (Kentucky-Tennessee-West Virginia Ed.) 67. 1952, 68.

Ortega, J. C., Control of codling moth and aphids in Southern California, new materials promising but DDT or basic lead arsenate plus aphicide recommended. Diamond Walnut News 34. 1952, nr. 3, p. 6—7.

Pauck, Die Winterspritzung, das große Reinigungsbad der Obstgehölze. Landw. Wochenbl. Westf., Lippe 109 A. 1952, 16.

Petch, C. E., Modern methods in orchard spraying. [chiefly equipment] Macdonald Coll. J., Quebec, 12. 1952, nr. 9, p. 6—8.

Pfeifer, S., Künstliche Habichte schützen unsere Ernten. Obstbau 71. 1952, 156, 1 Abb.

Pfleghar, Winterliche Pflegemaßnahmen im Obstgarten. Allgäuer Bauernbl. 20. 1952, 3—4.

Philipp, W., Zur Blausäurebegasung der Obstbäume. Nachr.bl. dtsch. Pfl.schutzd., Braunschweig, 4. 1952, 9—12.

Pickett, A. D., Trends in orchard spraying. [equipment] MacDonald Coll. J., Quebec, 12. 1952, nr. 11, p. 6—8.

Pindur, W., Winterspritzung. Bauer (Oesterr.) 5. 1952, Nr. 40, S. 9—10.

Porter, B. A., Progress in insect control. Amer. Fruit Grower, Cleveland (Ohio), 72. 1952, nr. 2, p. 15, 42—43.

Quassowski, H., Schädlingsbekämpfung im Obstbau. Warum — womit — wie? Mitt. dtsch. Landw.-Ges., Frankfurt/M., 67. 1952, Beil. »Das Reich der Landfrau«, S. 71.

Ramsfjell, T., Skadedyr og sjukdommer som kan spreies med frukttraer og baerbusker fra planteskoler. Gartneryrket (Norge) nr. 14. 1952, 17 p., 34 fig.

Reich, H., Blutlausbekämpfung im Winter. Mitt. Mitgl. Obstbauvers.ring Altes Land usw., York, 7. 1952, 25—26, 1 Abb.

Roach, W. E., Pest and disease control in the fruit tree nursery. Nurseryman and Seedsman, London, 115. 1952, 1302—1303.

Roney, J. N., Fruit insect control hints, 1952. Arizona agric. Coll. Ext. Circ. 148. 1952, 11 p.

Rosella, En arboriculture, les traitements coûtent cher; mieux vaut augmenter l'efficacité, que diminuer le prix de chaque traitement. Progr. agric., vitic. 137. 1952, 106—107.

Ross, W. A., Harmonizing chemical with biological control of orchard insects. [Mimeogr. Pap.] 13th int. hortic. Congr., London, 1952, 3 p.

Rossi, L., (Spring and summer treatment of fruit trees.) Ric. Fruttic., Ravenna, 14. 1952, 87—90.

Rossi, L., (Winter spraying for fruit trees.) Riv. Fruttic., Ravenna, 14. 1952, 46—51.

Rothansl, H., Den Spritzgegnern ins Stammbuch. Prakt. Landwirt (Oesterr.) 6. 1952, 48.

Rump, L., Kein Qualitätsobst ohne Pflanzenschutz. Nur vorbeugende Pflanzenschutzmaßnahmen verbürgen den Erfolg. Rhein. Bauernztg. 6. 1952, 227.

Salinger, J. P., Spraying for clean fruit: apples, pears, plums; the pests they attract and how to deal with them. Garden Craftsman, commerc. Hortic. (England) 1. 1952, 176—179.

Salinger, J. P., Spraying for clean fruit: cherries, peaches, and soft fruits. Garden Craftsman, commerc. Hortic. (England) 1. 1952, 205—208.

Scanlon, E. H., Mist sprayers increase number of useful tree species. Amer. City (Mag.), New York, 67. 1952, 118—119.

Schanderl, H., Pflanzenschutz im Obstgarten. Pflanze und Garten 2. 1952, Nr. 10, S. 16—17.

Scharmer, J., und Singer, G., Über Erfahrungen mit Sprühbehandlungen im Obstbau. Mitt. Biol. Zentralanst. H. 74. 1952, 147—156, 2 Abb.

Schmidt, H., Warum Winterspritzung der Obstbäume? Landw. Wochenbl. Kurhessen, Waldeck 167. 1952, 1365.

Schneider, F., Zum Thema Winterspritzung. Schweiz. Ztschr. Obst-, Weinbau 61. 1952, 24.

Schroth, E., Fünf Minuten vor Zwölf. [Pflanzenschutz im Obstbaugebiet von Verona, Ferrara, Modena] Pflanzenarzt, Wien, 5. 1952, Nr. 5, S. 1—2.

Schwarz, G., Stationäre Spritzanlagen im Intensivobstbau. Hess. Obstbau 7. 1952, 55-57.

Shewell-Cooper, W. E., Spraying the trees; this alone is not good enough; the surrounding land also needs to be cleared up. Field, London, 199. 1952, 459.

Sibilia, C., (It is time to control fruit tree parasites.) Agricoltura (Italia) 1. 1952, nr. 1, p. 48—51.

Smith, E. H., Tree spray oils. Advances Chem. Ser. 7. 1952, 3—11.

Sökmen, Y., Meyva agaçlarında mantari hastalıklara karşı kiş mücadelesi hakkında. (Über Winterbekämpfung von Pilzkrankheiten an Obstbäumen.) Tomurcuk, Istanbul, 1952, nr. 2, p. 13.

Sperger, R., Wie können wir unsere Obstbäume ertragreicher machen? Obst- u. Gartenbau, Stuttgart, 7. 1952, 52—53.

Stahl, M., Die Frühjahrs- und Sommerspritzungen im Obstbau. Kosmos 48. 1952, 133—137.

Stapley, J. H., Practical insecticide developments. Fruit Grower, London, 2934. 1952, 530—531.

Stearns, L. A., Heuberger, J. W., and Stevens, R. F., Delaware's fruit spray schedules for 1952. Delaware Univ. agric. Ext. Bull. 58. 1952, 7 p.

Stephan, F., Spritzkalender für den Obstbau. Bauer (Oesterr.) 5. 1952, Nr. 16, S. 12—13.

Taubitz, A., Zur Frage der gesetzlichen Regelung der Schädlingsbekämpfung im Obstbau. Gesunde Pflanzen 4. 1952, 33—35.

Teske, A. H., 1952 spray program. Virginia Fruit (Virginia State hortic. Assoc.) 40. 1952, 132—137.

Thiem, H., Sind im obstbaulichen Pflanzenschutz Großraumbehandlungen möglich? Mitt. Biol. Zentralanst. H. 74. 1952, 156—159.

Thompson, H. V., and **Armour, C. J.,** Rabbit repellents for fruit trees. Plant Path., London, 1. 1952, 18—22.

Tögel, Vogelschutz im Obstbau. Obst- u. Gartenbau, Stuttgart, 7. 1952, 11.

Tousey R. G., Use of parathion expands for northeast fruit growers. Amer. Cyanagrams 2. 1952, nr. 8, p. 25—27, 33.

Tunblad, B., (New insecticides.) Fruktodlaren (sver. pomol. Fören.), Stockholm, 1. 1952, 13—14.

Tunblad, B., (Old and new pesticides in fruit culture.) Svensk Jordbr.forskn., Stockholm, 1952, 160—163.

Turica, A., Ensayos en el Delta del Parana para control de las moscas de la fruta. IDIA (Inform. Invest. agríc.), Buenos Aires, 5. 1952, nr. 58, p. 20.

Underhill, G. W., Control of scale insects. Virginia Fruit (Virginia State hortic. Assoc.) 40. 1952, nr. 3, p. 38, 40, 42.

Van den Muijzenberg, E. W. B., van Wijk, C. J., Houter, P. J., Wegenaar, C. J., and **Wichers, A. J.,** De nevelspuit in de fruitteelt. (Concentrate spraying in orchards.) Meded. Dir. Tuinbouw, Wageningen, 15. 1952, 62—79.

Van Gemeren, P., (Disease control and the motor sprayer.) Fruitteelt, Arnhem, 42. 1952, 156—157.

Van Oosten, A., Wenken voor de ziektebestrijding bij fruit. Tuinbouwgids, Den Haag, 1952, 409.

Vidalmora, J. M., Tratamientos de invierno en los arboles frutales. Bol. Agric. (Balearic Isl., Diputac. prov.) 99. 1952, 3—4.

Vlasveld, W. P. N., Economic considerations of disease control. I—II. Fruitteelt, Arnhem, 42. 1952, 125—126, 149—151.

Vlasveld, W. P. N., (What needs attention.) [control of fruit pests] Fruitteelt, Arnhem, 42. 1952, 335.

Vlasveld, W. P. N., (Winter spraying.) Fruitteelt, Arnhem, 42. 1952, 50.

Vojvodic, D., (Winter spraying of fruit trees.) Vojvodanski Poljoprivrednik (Jugoslavija) 8. 1952, nr. 16, p. 19—20.

Vrijhof, B., (Results of the spraying in Zealand in 1951.) Fruitteelt Arnhem, 42. 1952, 121, 123—124, 126, 186—188, 208—209.

Waisman, I., Conserve sanos los frutales de su chacra. [spraying] Almanaque Minist. Agric., Ganad., Buenos Aires, 26/27. 1951/1952, 249—250.

Wasserburger, H.-J., Die Planung der Winterspritzung im Obstbau. Dtsch. Agrartechnik 2. 1952, 299—301.

Weeder, K., Control of diseases in fruit culture. Betuws Tuinbouwbl. (Nederland) 10. 1952, 4—5.

Wenzl, H., Untersuchungen über Grundfragen der Winterspritzung im Obstbau. Bodenkultur, Wien, 6. 1952, 346—354.

Wereschtschagin, B. W., Borba s wrediteljami plodowych kultur. (Bekämpfung der Schädlinge von Obstkulturen.) Les i step (USSR) 4. 1952, 68—69.

White, D. L., We like concentrate spraying. Amer. Fruit Grower, Cleveland (Ohio), 72. 1952, nr. 2, p. 19, 53.

Willburger, Netzschwefel 80 oder Kolloidschwefel 50? Obstbau 71. 1952, 114—115.

Williams, A. T., This year the fruit grower can try some new weapons. [fungicides and insecticides] East. States Co-op. 28. 1952, nr. 2, p. 26—28.

Young, H. C., New fruit fungicides; their adaptability for better timing of sprays. Wisconsin Hortic. 42. 1952, 92.

Zäch, C., und **Kundert, J.,** Versuche über Spritztechnik und Wirkstoffverlust. Schweiz. Ztschr. Obst-, Weinbau 61. 1952, 151—155, 3 Abb.

Anleitung für die Durchführung der Obstbau-Spritzungen 1952. Obstbau 71. 1952, 8—9.

Bestrijdingsschema fruitteelt open grond. Tuinbouwgids, Den Haag, 1952, 413—414.

Bestrijding van gebreksziekten door bespuiting en injectie. Tuinbouwgids, Den Haag, 1952, 412.

Drei große Obstbauaktionen. Obst- u. Gartenbau, Stuttgart, 7. 1952, 43—44.

Frostspannerbekämpfung mit und ohne Leimgürtel. Obstbau 71. 1952, 155, 5 Abb.

Home orchard spray schedule. Iowa agric. Exp. Stat. Pamphlet 175. 1952, 6 p., 15 fig.

»**Kankerdood**« setzt sich durch. Gartenwelt 52. 1952, 62.

Spraying recommendations for home orchards. New Jersey agric. Coll. Ext. Spray Calendar 54. 1952, 8 p.

Spray recommendations for tree fruits in eastern Washington. Washington State Coll. Ext. Bull. 419 (rev.). 1952, 44 p.

Spritztermine für den saarländischen Obstbau im Jahre 1952. Saarländ. Bauernbl. 6. 1952, 35.

Spritzungen im Obstbau. Landw. Ztschr. Nord-Rheinprov. 119. 1952, 403.

Winterspritzung vorbereiten! Gesunde Pflanzen 4. 1952, 272—273, 6 Abb.

g. Spezieller Teil
Special part — Partie spéciale

Steinobst
Stone fruits — Fruits à noyaux

Allgemeiner Teil
General part — Partie générale

Cain, J. C., and **Boynton, D.,** Fertilization, pruning and a leaf mottle condition in relation to the behaviour of Italian prunes in Western New York. Proc. amer. Soc. hortic. Sci. 59. 1952, 53—60.

Cardinell, H. A., and **Barr, C. G.,** Post harvest tests with peaches to reduce spoilage. Michigan agric. Exp. Stat. Quart. Bull. 35. 1952, nr. 1, p. 39—51, 3 fig.

Chabrolin, C., Le dépérissement par apoplexie de l'abricotier. Congr. Pomol. France Sess. 82 (1951). 1952, 63—68.

Dumas, J., Une forme de dépérissement du cerisier d'origine inconnue, observée dans la région lyonnaise. Compt. rend. Acad. Agric. France 39. 1952, 411—415.

Fulkerson, J. F., Spraying cherries, 1952 season. Mountaineer Grower 22. 1952, nr. 190, p. 50—51.

Hesse, C. O., Apricot culture in California. Section V: Diseases and pests. Calif. agric. Exp. Stat. (Ext. Serv.) Circ. 412 (Sect. V). 1952, 12 p., 10 fig.

Higgins, K. B., Sanitation in the peach orchard. J. Dept. Agric. Victoria 50. 1952, 221—222.

Hilkenbäumer, F., Zur Frage des Süßkirschenanbaus. [Krankheiten] Obstbau 71. 1952, 3—4.

Jacks, H., Compatibility of spray materials used in New Zealand on apricots. Orchardist New Zealand 25. 1952, nr. 2, p. 16—17. — Dept. sci., ind. Res., Plant Dis. Div., Auckland, [1952], 1 p.

Jacks, H., Compatibility of spray materials used in New Zealand on peaches - 1952. Dept. sci., ind. Res., Plant Dis. Div., Auckland, 1952, 1 p.

KenKnight, G., Germination inhibiter in wood and bark of peach and wild Prunus. [Prunus angustifolia, P. serotina] Phytopathology 42. 1952, 285 (Abstr.).

McCornack, A. A., Cochran, L. C., English, H., and **Hemstreet, C. L.,** A black tip condition on peach fruits in California. Plant Dis. Reptr. 36. 1952, 99—100, 1 fig.

Mackay, J. H. E., Acti-dione treatment of cherry fruit. J. austr. Inst. agric. Sci. 17. 1952, 216—217.

Mason, C. L., Fall spraying in the control of bacterial spot of peaches. [Xanthomonas pruni] Phytopathology 42. 1952, 14 (Abstr.). — Arkansas Farm Res. 1. 1952, nr. 3, p. 6.

Maurer, K. J., Erziehungssünden bei Steinobstbäumen. Obstbau 71. 1952, 4—5, 3 Abb.

Monceau, G., Quels traitements faut-il effectuer sur les pêchers. Réveil Agric. (France) 61. 1952, 372—373.

Moultrie, L. G., Peach insects and diseases. Georgia Dept. Ent. Bull. 97. 1952, 30 p.

Powers, W. J., We can save our peach trees! New Jersey Farm, Garden 23. 1952, nr. 8, p. 24.

Rui, D., (Diseases and protection of our cherries.) I—II. Agric. vicent. (Italia) 83. 1952, nr. 14, p. 2. — Inform. agric., Vicenza, 8. 1952, nr. 13, p. 3—4; nr. 14, p. 5.

Scaramuzzi, G., (Clarification of »sawtooth« chlorosis of peach leaves.) Riv. Ortoflorofruttic. ital. 36. 1952, 95—99.

Seliskar, C., Cause and control of peach tree gummosis. Proc. Western hortic. Soc. 1952, 53—60.

Swartwout, H. G., Jenkins, L., and **Martin jr., W. R.,** Spraying cherries. Missouri agric. Coll. Ext. Circ. 613. 1952, 2 p.

Swartwout, H. G., Jenkins, L., and **Martin jr., W. R.,** Suggested peach spray programs, 1952. Missouri agric. Coll. Ext. Circ. 612. 1952, 8 p.

Theimer, K., Hauptursachen des Pfirsichsterbens. Illustr. Flora, Wien, 75. 1952, 89—90.

Tunis, W. D., Garman, P., and **Stoddard, E. M.,** 1953 spray guide for peaches. Connecticut agric. Coll. Ext. MP-3. 1952, 2 p.

1952 spraying recommendations for peaches. New Jersey agric. Coll. Ext. Spray Calendar 51. 1952, 7 p.

Nichtparasitäre Krankheiten
Diseases not caused by parasites
Maladies non parasitaires

Atkinson, J. D., Frost damage to apricot blossoms and fruit. New Zealand J. Sci., Technol. (A) 34. 1952, 277—285, 2 fig.

Atkinson, J. D., Oil injury — an unusual cause of death in apricot trees. Orchardist New Zealand 25. 1952, nr. 4, p. 11, 13.

Cain, J. C., and **Boynton, D.,** Fertilization, pruning and a leaf mottle condition in relation to the behavior of Italian prunes in western New York. Proc. amer. Soc. hortic. Sci. 59. 1952, 53—60.

Cardinell, H. A., Some effects of brushing and sulfur dusting of peaches on decay and shriveling. Michigan agric. Exp. Stat. Quart. Bull. 35. 1952, 34—38, 2 fig.

Crane, J. C., and **Brooks, R. M.,** Growth of apricot fruits as influenced by 2, 4, 5-trichlorophenoxyacetic acid application. Proc. amer. Soc. hortic. Sci. 59. 1952, 218—224.

Dostálek, J., Study of the resistance of cherry (sweet and sour) flowers to spring frost. Sborník českosl. Akad. Zeměd. (Ann. Acad. tchécosl. Agric.), Praha, 25. 1952, 117—120.

Edgerton, L. J., and **Hoffman, M. B.,** The effect of thinning peaches with bloom and post-bloom sprays on the cold hardiness of the fruit buds. Proc. amer. Soc. hortic. Sci. 60. 1952, 155—159.

Gigante, R., Modificazioni anatomiche in foglie die pesco colpite da freddo. (Anatomical irregularities in peach leaves induced by cold.) Boll. Staz. Pat. veg., Roma, 8 (1950). 1952, 107—123, 17 fig.

Jougan, E., La gomme des arbres fruitiers à noyaux. Monit. agric. (France) 2. 1949, nr. 56, p. 11.

Okamoto, S., (Sun-scald of peach trees. I. Sun-scald in relation to tree temperature.) J. hortic. Assoc. Japan 20. 1952, 243—249.

Osterwalder, A., Vom »Bleiglanz« der Pfirsichblätter. Schweiz. Ztschr. Obst-, Weinbau 61. 1952, 43—45. 2 Abb.

Peichl, L., Die Beziehungen zwischen Ertrag und Witterung beim Kernobst. Ztschr. Acker-, Pfl.bau 95. 1952, 233—260, 2 Abb.

Pickett, J. T., 2, 4, 5-T increases fruit size. Amer. Fruit Grower, Cleveland (Ohio), 72. 1952, nr. 3, p. 33.

Rieuf, P., Au sujet de la maladie »du Bulida«. [abricot] Fruits d'outre mer, Paris, 7. 1952, 128.

Rosenkranz, F., Marillenblüte und Frost in Niederösterreich. Gartenztg. österr. Gartenbauges. Wien 1/2. 1952, 4—5.

Saffie D., Z., Efectos del 2, 4-5-T, aplicado en duraznos para obtener un anticipo en la maduración. Simiente, Santiago de Chile, 22. 1952, 27.

Snapp, O. I., Injury to peach trees from propylene dichloride. J. econ. Ent. 45. 1952, 890.

Telliez, J., L'asphyxie des pêchers dans le Sud-Ouest en 1951. Bull. techn. Inform. Minist. Agric. France nr. 69. 1952, 307—315.

Vandermark, J. S., and **Sharvelle, E. G.,** Prevention of postharvest decay of stone fruits by volatile chemicals. Science, Lancaster, 115. 1952, 149—150.

Wylie, W. D., Do insects in the soil damage plants? [effect of insecticide applications to the growth of peach trees] Arkansas Farm Res. 1. 1952, 5.

Yarwood, C. E., and **Harvey, H. T.,** Reduction of cherry decay by washing. Plant Dis. Reptr. 36. 1952, 389.

Pflanzliche Feinde
Vegetal parasites — Parasites végétaux

Adam, D. B., Grace, J., and **Flentje, N. T.,** The »gummosis« or »die-back« disease of apricots. [Cytosporina sp.] Tasmanian J. Agric. 23. 1952, 128—135, 7 fig.

Akdoğan, M., Taş çekirdekli meyvalarda kĭzĭl leke (Clasterosporium carpophilum). (Rotflecken an Steinobst, Clasterosporium carpophilum.) Tomurcuk, Istanbul, 1952, nr. 2, p. 10—11.

Akdoğan, M., Klok (Taphrina deformans), cep hastalĭğĭ. (Die Kräuselkrankheit (Taphrina deformans) und die Taschenkrankheit.) Tomurcuk, Istanbul, 1952, nr. 3, p. 10—11.

Angell, H. R., Brown rot of stone fruits. 1. An unsuccessful attempt to increase percentage infection by artificial inoculation. [Sclerotinia fructicola on apricot] J. austr. Inst. agric. Sci. 17. 1952, 212—213.

Bassham, A. E., A new role for lime sulfur in peach brown rot control. Proc. Tennessee State hortic. Soc. 47. 1952, 19.

Burkholder, C. L., and **Sharvelle, E. G.,** Several orchard management practices which are an aid in preventing in-transit brown rot of peaches. [Sclerotinia] Trans. Illionois State hortic. Soc. 1951. 1952, 219—232.

Bush, R., Plums in April: slit their trunks to save the heads. [bacterial canker in plums and quinces] Grower, [London], 37. 1952, 366—367.

Campbell, R. W., Cherry leaf spot and its control. Kansas State hortic. Soc. Bienn. Rept. 51. 1952, 96—97.

Delitala, A., (Tip wilt from Cytospora in peach branches.) Inform. Fitopat., Bologna, 2, 1952, 55—56.

Fisher, E. E., and **Jenkins, P. T.,** Control of apricot freckle. [Cladosporium carpophilum] Austr. Plant Dis. Recorder 4. 1952, 33—34.

Foster, H. H., Organic vs. inorganic fungicides for the control of the brown rot fungus on peaches. Phytopathology 42. 1952, 7—8 (Abstr.).

Foster, H. H., and **Petersen, D. H.,** The peach leaf curl epidemic of 1951. [Taphrina deformans] Plant Dis. Reptr. 36. 1952, 140—141.

Gallucci, M. M., Un'infezione da Monilia fructigena Pers. su drupe di Prunus laurocerasus L. (An attack of Monilia fructigena Pers. on drupes of Prunis laurocerasus L.) Ann. Sperim. agr., Roma, 6 (n. ser.). 1952, 1399—1404, 4 fig.

Ghillini, C. A., e **Mezzini, L.,** Di un caso di »mal del piombo« del pesco. (A case of silverleaf of peaches.) [Melanospora stysanophora (Stysanus stemonites)] Riv. Fruttic. Ravenna, 14. 1952, 65—73.

Goidànich, G., Le »macchie rosse« del pesco. (The »red-spot« disease of the peach leaves.) Ann. Sperim. agr., Roma, 6 (n. ser.). 1952, 1267—1270, 1 tab. col.

Goidànich, G., Branzanti, E. C., e **Togliani, F.,** Osservazioni sul mal del piombo del pesco in Emilia ed in Romagna. (Observations on silver leaf disease of peach trees in Emilia and Romagna.) [Stereum purpureum] Riv. Fruttic., Ravenna, 14. 1952, nr. 1, p. 7—19.

Goldsworthy, M. C., and **Wilson, R. A.,** Terminal bud and shoot infections and the overwintering of Xanthomonas pruni in peach trees. Plant Dis. Reptr. 36. 1952, 408—409.

Goncalves, R. D., (Canker and brown rot of peach.) [Cladosporium carpophilum, Sclerotinia cinerea] Colheit. e Mercados (Portugal) 8. 1952, 9—10.

Govi, G., Due specie die Cylindrocarpon isolate da fruttiferi. (Two species of Cylindrocarpon on fruit trees.) [C. radicicola, C. obtusisporum] Ann. Sperim. agr., Roma, n. ser., 6. 1952, 793—804, 7 fig., 2 tab.

Grosjean, J., Natuurlijk herstel van loodglansziekte. (Natural recovery from silver-leaf disease.) [Stereum purpureum on plum] Tijdschr. Plantenziekten 58. 1952, 109—120, 1 fig. (Meded. Inst. plantenziektenkdg. Onderz., Wageningen, nr. 45).

Haller, M. H., Smith jr., W. L., Smith, M. A., Womeldorph jr., S. E., and **Wright, W. R.,** Post-harvest fungicidal treatments of peaches tested in 1951. Phytopathology 42. 1952, 341—342 (Abstr.).

Harada, S., (Spread of Fusicoccum canker of peach tree and present state of its control.) J. Plant Prot., Tokyo, 41. 1952, 415—417.

Helton, A. W., Controlling Coryneum blight of stone fruits. Idaho agric. Exp. Stat. Mimeogr. Leafl. 120. 1952, 2 p.

Hiratsuka, N., (On the white rust of peach.) [Leucotelium (Puccinia) pruni-persicae) J. jap. Bot. 27. 1952, 229—238. — J. Plant Prot., Tokyo, 6. 1952, 256—278.

Hochapfel, H., Die Cylindrosporium-Krankheit an Süß- und Sauerkirschen, ihre Verbreitung und Bekämpfung. Nachr.bl. dtsch. Pfl.schutzd., Braunschweig, 4. 1952, 97—100, 3 Abb.

Hochapfel, H., Die Cylindrosporium-Krankheit an Süß- und Sauerkirschen in Europa und Nordamerika. Phytopath. Ztschr. 19. 1952, 389—402, 6 Abb.

Horn, N. L., Diplodina on peach in Louisiana. Plant Dis. Reptr. 36. 1952, 351, 1 fig.

Hutton, K. E., Freckle [Cladosporium carpophilum] of apricots. Austr. Plant Dis. Recorder 4. 1952, 10.

Issa, E., A »podridão parda« e a »sarna« do pessegueiro. (Brown rot and scab of peach.) [Sclerotinia cinerea (S. laxa), Cladosporium (Fusicladium) carpophilum] Biológico, São Paulo, 18. 1952, nr. 4, p. 62—65, 1 fig.

Kirby, R. S., Mercury sprays give indication of reducing bacterial leaf spot of peach foliage. Plant Dis. Reptr. 36. 1952, 68.

Kišpatić, J., Leaf curl of peaches. [Taphrina deformans] Biljna Proizvodnja (Pflanzenbau), Zagreb, 5. 1952, 22—25.

Kitajima, H., (Studies on peach anthracnose.) [Gloeosporium laeticolor] Bull. Tôkai-Kinki agric. Exp. Stat., hortic. Div., 1952, nr. 1, p. 72—104, fig.

Kitajima, H., (Studies on the dissemination of peach anthracnose. III. Histopathological observation.) Ann. phytopath. Soc. Japan 16. 1952, 109—112, 6 fig.

McClure, T. T., Experiences with cherry sprays in 1951. [Higginsia hiemalis] Phytopathology 42. 1952, 14 (Abstr.).

Moore, M. H., Note on infection of young peach shoots and of leaves by the brown rot fungus, Monilia fructigena. East Malling Res. Stat. Ann. Rept. 39 (1951). 1952, 148, 1 tab.

Petersen, D. H., and **Dunegan, J. C.,** Present status of the peach anthracnose problem in Georgia. [Glomerella cingulata] Phytopathology 42. 1952, 343.

Poulos, P. L., and **Heuberger, J. W.,** Relation of wounds to the fruit rot phase of the brown rot disease of peaches. Plant Dis. Reptr. 36. 1952, 198—200.

Prew, H. A., Brown rot of stone fruit. New Zealand J. Agric. 84. 1952, 28.

Pupillo, M., Un metodo per il rapido rilevamento delle fruttificazioni di Coriyneum beyerinckii sulle piante de pesco. (A method for the rapid detection of the fructifications of Coryneum beijerinckii on peach plants. Ricerca sci., Roma, 22. 1952, 474—475, 1 fig.

Ramsfjell, T., (Peach leaf curl (Taphrina deformans).) Norsk Hagetidend, Oslo, 68. 1952, 135.

Richards, B. L., Leaf spot, most destructive disease of Italian prune in Utah. Farm, Home Sci. (Utah Stat.) 13. 1952, 27, 46—47.

Roach, F. A., The scourge of bacterial canker. [in cherries and plums] Nurseryman and Seedsman, London, 115. 1952, 598—599.

Steenland, A. P., Threat to peaches; brown rot blossom blight. West. Fruit Grower, San Francisco, 6. 1952, nr. 2, p. 44.

Taylor, H. S., Identification and control of bacterial spot of stone fruit. [Xanthomonas pruni on plums] New Zealand J. Agric. 84. 1952, 377—378, 4 fig.

Torikata, H., and **Komai, Y.,** Studies on the resistance of Japanese pear to the black spot disease fungus (Alternaria kikuchiana Tanaka). III. On the polyphenol oxidase in the fungus-free filtrate of culture media. Ann. phytopath. Soc. Japan 16. 1952, 63—68.

Traversi, B. A., Eltorque o enrulamiento del duraznero. [Taphrina deformans] Mundo agríc., Barcelona, 4. 1952, nr. 32, p. 58.

Wade, G. C., Brown rot of apricot investigations. Value of tetra-methyl thiuram disulphide and a potassium fertiliser for control. [Sclerotinia fructicola] Tasmanian J. Agric. 23. 1952, 241—246.

Yarwood, C. E., Apricot powdery mildew from rose and peach. [Sphaerotheca pannosa and Podosphaera tridactyla] Bull. Dept. Agric. Calif. 41. 1952, 19—25.

Young, R. A., Incipient crown gall infections in Mazzard cherry seedlings. Phytopathology 42. 1952, 520 (Abstr.).

Zacha, V., and **Vanicek, V.,** (Results of experiments with red spot on plums (Polystigma rubrum) in 1951.) Socialist. Zeměd. (Čechosl.) 2. 1952, 451—455.

Zobrist, L., and **Hoffmann, E.,** Der Zwetschgenrost und seine Bekämpfung. [Tranzschelia pruni spinosae] Schweiz. Ztschr. Obst-, Weinbau 61. 1952, 169—173, 2 Abb.

Stärkeres Auftreten einer Blattfleckenkrankheit an Kirschen, verursacht durch den Pilz Coccomyces hiemalis Higg. Pflanzenschutz, München, 4. 1952, 7, 3 Abb.

Tierische Feinde
Animal parasites — Parasites animaux

Akaishi, Y., and **Sekiguchi, T.,** (Control of peach fruit moth by using of fungi.) J. Plant Prot., Tokyo, 36. 1952, 253—255.

Anthon, E. W., Peach silver mite [Vasates cornutus] can cause premature defoliation. Better Fruit, Portland, 46. 1952, nr. 10, p. 31.

Anthon, E. W., Planning a spray program for stone fruit insects. West. Fruit Grower, San Francisco, 6. 1952, nr. 2, p. 48—49.

Anthon, E. W., and **Burts, E.,** Peach silver mite and its control. [Vasates cornutus] Proc. 48th Ann. Meetg. Washington State hortic. Assoc. 1952, 37—38.

Armitage, H. M., Effect of naphthyl acetic acid on cherry fruiting. J. econ. Ent. 45. 1952, 738.

Armstrong, W. D., Peach pests, problems and cultural practices. Kansas State hortic. Soc. Bienn. Rept. 51. 1952, 43—46.

Audisio, H. S., El gusano del duraznero (Laspeyresia molesta Busck). Almanaque Minist. Agric., Ganad., Buenos Aires, 26/27. 1951/1952, 359—360.

Avidov, Z., and **Svirsky, A.,** (The control of the prune sawfly [Hoplocampa flava] in 1951.) Hassadeh, Tel-Aviv, 32. 1952, 206—208, 255—257.

Baggiolini, M., Un nouveau parasite de la tordeuse orientale du pêcher (Laspeyresia molesta Busck): Lissonota buolianae Hart. (Hym. Ichn.). Mitt. schweiz. ent. Ges. 25. 1952, 260—262, 2 fig.

Bender, E., Nochmals die Kirschfruchtfliege. Bad. Obst-, Gartenbauer 1952, 103—104.

Bernard, J., Essais de lutte contre les hoplocampes du prunier. Bull. Inst. agron., Stat. Rech. Gembloux 20. 1952, 9—22.

Bernard, J., Observations sur le vol et la ponte chez Hoplocampa minuta Christ. (Hymen. Tenthredinidae). Parasitica, Gembloux, 8. 1952, 159—173, 5 fig.

Besson, J., et **Joly, E.,** La tordeuse orientale du pêcher en France au cours de l'année 1951. [Laspeyresia molesta] Phytoma, Paris, 5. 1952, nr. 42, p. 13—19, 5 fig.

Bobb, M. L., The life history and control of the plum curculio (Conotrachelus nenuphar) in Virginia. Virginia agric. Exp. Stat. Bull. 453. 1952, 30 p.

Bollow, Auftreten der Pflaumen-Gallmücke Ischnonyx (= Asphondylia) prunonum Wachtl in Bayern. Pflanzenschutz, München, 4. 1952, 80—81, 3 Abb.

Bollow, Die Kirschblütenmotte (Argyresthia ephippella F.). Pflanzenschutz, München, 4. 1952, 98, 2 Abb.

Breny, R., Le ver des prunes, Laspeyresia [Grapholitha] funebrana. Fruit belge, Gembloux, 20. 1952, 74—76.

Brown, E., Control of western peach tree borer in northeastern Oregon. [Sanninoidea exitiosa grafei] Oregon agric. Exp. Stat. Bull. 513. 1952, 18 p., 6 fig.

Brunson, M. H., Reduction of oriental fruit moth in peach orchards by use of parathion and EPN to control plum curculio. J. econ. Ent. 45. 1952, 1071—1075.

Brunson, M. H., and **Koblitsky, L.,** Parathion, DDT and EPN deposits on peach foliage and fruit. J. econ. Ent. 45. 1952, 953—957.

Chandler, S., Curbing the plum curculio [Conotrachelus nenuphar]. [includes control tests of peach in Illinois] Kansas State hortic. Soc. Bienn. Rept. 51. 1952, 28—42.

Charles, J., Carpocapse ou ver de fruit des prunes. Rustica (France) 25. 1952, 512, 521.

Chitwood, B. G., Specht, A. W., and **Havis, L.,** Root-knot nematodes. III. Effects of Meloidogyne incognita and M. javanica on some peach rootstocks. Plant and Soil, The Hague, 4. 1952, 77—95.

Cochran, J. H., Organic phosphate dusts on the plum curculio. J. econ. Ent. 45. 1952, 1085—1087.

Cochran, J. H., Foster, H. H., and **Nettles, W. C.,** Peach pest control in South Carolina. South Carolina agric. Exp. Stat. Clemson agric. Coll. Ext. Circ. 360 (rev.). 1952, 16 p.

Cox, J. A., The cherry fruit fly (Rhagoletis cingulata) in Erie County. Pennsylv. agric. Exp. Stat. Bull. nr. 548. 1952, 17 p.

Dalmeyer, W. H. M., Results obtained with aldrin and dieldrin against the mediterranean fruit fly (Ceratitis capitata Wied.) in peach orchards in France. Agric. Bull. (Shell) April 1952, 12 p., 3 fig.

De Brouwer, W. M. Th. J., (The plum leaf curling midge (Dasyneura-tortrix Loew.) on glasshouse plums and its control.) Meded. Dir. Tuinbouw 15. 1952, 145—156.

De Rosa, M., Worm damage in cherries. [Rhagoletis cerasi] Giorn. agric., Roma, 62. 1952, 349.

Ellertson, F. E., Cherry fruit fly [Rhagoletis cingulata] control in the Dalles. Proc. Oregon State hortic. Soc. 67. 1952, 94.

Engel, Madenfreie Kirschen. [Rhagoletis cerasi] Gesunde Pflanzen 4. 1952, 216—218, 2 Abb.

Engel, H., Kritische Bemerkungen und Untersuchungen zur Frage der Kirschfruchtfliegenbekämpfung. Bad. Obst-, Gartenbauer 1952, 191—194.

Féron, M., Méthode d'avertissement utilisée en Suisse dans la lutte contre la mouche des cerises. [Rhagoletis cerasi] Phytoma, Paris, 5. 1952, nr. 39, p. 8—10, 4 fig.

Ferraguti, A., (Parasites of stone fruits.) Agric. ferrarese (Italia) 56. 1952, 17—19.

Fluke, C. L., and McIntyre, C. B., Plum curculio (Conotrachelus nenuphar) control through soil application of insecticides. Proc. amer. Assoc. econ. Entomolgists, North Centr. States Br., 7. 1952, 24.

Frick, K. E., The cherry or Rhagoletis fly is still with us; plan your 1953 fight now. Proc. Washington State hortic. Assoc. 28. 1952, 109—111.

Frick, K. E., Determining emergence of the cherry fruit fly with ammonium carbonate bait traps. J. econ. Ent. 45. 1952, 262—263.

Ghillini, C. A., Gommosi traumatica e deperimento dei ciliegi e dei peschi. (Wound gummosis and decline in cherry and peach trees.) [Scolytus rugulosus] Riv. Ortoflorofruttic. ital. 36. 1952, 174—182.

Graham, C., Control of peach insects with dilute and concentrated sprays. J. econ. Ent. 45. 1952, 738—739.

Green, H. B., Spray from ground better than plane in peach orchard. [Conotrachelus nenuphar] Mississippi Farm Res. (Mississippi Stat.) 15. 1952, nr. 11, p. 1, 7.

Hoerner, J. L., and List, G. M., Controlling cherry fruit worm in Colorado. J. econ. Ent. 45. 1952, 800—805, 1 fig.

Jenkins, C. F. H., A new insect pest in W. A.: Oriental fruit moth (Cydia molesta Busck). J. Dept. Agric. West. Austr. 1. 1952, 349—351, 4 fig.

Johanson, F. D., Nematodes on peaches. Report on survey. Proc. Connecticut pomol. Soc. 61 (1951). 1952, 115—116.

Jones, S. C., Cherry fruit fly [Rhagoletis cingulata] research in Oregon. Proc. Oregon State hortic. Soc. 67. 1952, 93—94.

Kerr jr., T. W., and Shurtleff, M. C., Controlling plum curculio. [Conotrachelus nenuphar] Research (Rhode Island Stat.) 2. 1952, 46—47.

Klett, Die Kirschfruchtfliege ist da! Württ. Wochenbl. Landw. 119. 1952, 473.

Krause, G., Der Pfirsichwickler Laspeyresia molesta (Busck) und die Pfirsichmotte Anarsia lineatella (Zeller) auf importiertem Obst. Pflanzenschutz, München, 4. 1952, 113—115, 3 Abb.

Lagaude, V., Un nouveau parasite: le cécidomyie des prunes. Rev. hortic., Paris, 124. 1952, 717.

Luis, E., Beachtet die Eiablage der Pflaumensägewespe. Hess. Obstbau 7. 1952, 57—58.

Mallinjoud, H. M., Précisions sur le cycle évolutif du puceron farineux du pêcher et du prunier, »Hyalopterus pruni«, et nouvelles suggestions relatives à lutte contre ce parasite. Rev. hortic., Paris, 124. 1952, 622—623.

Martin, D. F., Peach tree borer control. [Sanninoidea exitiosa] Texas agric. Exp. Stat. Progr. Rept. 1486. 1952, 3 p. (Agric. Bull. (Shell) ADB. 119).

Martin, H., Essais de lutte contre la mouche méditerranéenne des fruits (Ceratitis capitata Wied.) sur pêches tardives en Provence 1951. Phytoma, Paris, 5. 1952, nr. 36, p. 20—21.

Marzocchella, A., (Prepare in time for the control of aphids and lice on peaches.) Ispettorato prov. Agric. Napoli Circ. 6. 1952, 7—9.

Maurice, P., Le puceron vert du pêcher [Myzus persicae]. Bouches Rhône agric. (France) 20. 1948, nr. 969, p. 8.

Miyashita, K., and Kawamura, E., (Effect of spraying with lime water for peach fruit moth (Carposina niponensis Walsingham).) Hokkaido nat. agric. Exp. Stat. Res. Bull. 63. 1952, 113—117.

Newcomer, E. J., and Carlson, F. W., The leaf roller moth Pandemis pyrusana. J. econ. Ent. 45. 1952, 1079—1081.

Okudai, S., (Ecological studies of the suctorial insects injurious to peach fruits and their control.) J. hortic. Assoc. Japan 21. 1952, 14—24.

Parker, W. B., The cherry fruit fly [Rhagoletis cingulata] control program in Eugene area. Proc. Oregon State hortic. Soc. 67. 1952, 95.

Phillips, A. M., Processors' views on cherry fruit fly [Rhagoletis cingulata] control. Proc. Oregon State hortic. Soc. 67. 1952, 96.

Preseren, T., (Cherry fly [Rhagoletis cerasi] and Gorica cherries.) Sadjarstvo, Vinarstvo in Vrtnarstvo (Yugoslavia) 4. 1952, 131—132.

Prints, J. I., (Utilization of carbolineum in the control of scale insects on plums.) [Lecanium corni chiefly] Sad i Ogorod (Orchard and Garden) 2. 1952, 32—33.

Rings, R. W., Experimental control of plum curculio on peaches. J. econ. Ent. 45. 1952, 436—444.

Roberti, D., Le oplocampe del susino. III. Hoplocampa minuta Christ. Boll. Lab. Ent. Agr. »Filippo Silvestri«, Portici, XI. 1952, 243—255, 8 fig.

Roehrich, R., Éléments essentiels de la biologie de l'insecte conditionnant l'avertissement. Tordeuse orientale du pêcher (Laspeyresia molesta Busck). Phytoma, Paris, 5. 1952, nr. 41, p. 20—23.

Salaschek, H., Die erste Kirschfruchtfliegen-Großbekämpfung mit regenfesten Nebelbelägen und ihre Auswirkung auf die moderne Pflanzenschutz-Geräteentwicklung. Nachr.bl. dtsch. Pfl.schutzd., Braunschweig, 4. 1952, 38—39, 3 Abb.

Schmutterer, H., Plastophora rufa (Wood) (Dipt., Phoridae) als Eiräuber und Parasit von Eulecanium corni (Bché.) (Homopt., Coccoidea). Anz. Schädl.kunde 25. 1952, 145—148, 12 Abb.

Schöne, Eine erfolgreiche Bekämpfung der Kirschfruchtfliege. [Rhagoletis cerasi] Gesunde Pflanzen 4. 1952, 295—296, 1 Abb.

Schöne, P., Die Kirschfruchtfliege muß verschwinden! [Rhagoletis cerasi] Bauern-Ztg. 5. 1952, Nr. 31, S. 9—10, 19.

Scognamiglio, A., Un attacco di Cossus cossus L. a piante di pesco. Boll. Lab. Ent. Agr. »Filippo Silvestri«, Portici, XI. 1952, 183—192, 7 fig.

Smith, E. H., Control of peach tree borer and lesser peach tree borer. J. econ. Ent. 45. 1952, 611—615, 3 fig.

Smith, E. H., Harris, R. W., Influence of tree vigor and winter injury on the lesser peach tree borer. J. econ. Ent. 45. 1952, 607—610.

Snapp, O. I., Benzene hexachloride and DDT sprays for peach tree borer control. J. econ. Ent. 45. 1952, 547.

Snapp, O. I., Peach insect control experiments in 1951. Proc. Assoc. south. agric. Workers 49. 1952, 84—85 (Abstr.).

Snapp, O. I., Plum curculio control on peach in 1951. J. econ. Ent. 45. 1952, 249—251.

Snapp, O. I., Treatment of peach nursery stock to prevent infestation by peach tree borer. J. econ. Ent. 45. 1952, 546.

Soenen, F. A., Hoplocampa flava L. [on plums] Fruit belge, Gembloux, 20. 1952, nr.125, p. 9—11.

Summers, F. M., and **Volz, A. G.,** Control of peach twig borer (Anarsia lineatella). Almond Facts, San Francisco, 17. 1952, 4—5.

Swirski, E., The life cycle of Hyalopterus pruni F. (Aphididae, Homopt.) in Israel. Bull. Israel Res. Council 2. 1952, 78—79.

Tokunaga, M., and **Tsujita, M.,** (Control of peach pests using paper bags sprayed with DDT solutions.) [Dichocrosis punctiferalis, Carposina niponensis, Grapholitha molesta] Saikyo Univ. Fac. Agric. Sci. Rept. 2. 1952, 106—110.

Vogel, W., Die Verwendung von Parathion zur Bekämpfung der Kirschenfliege (Rhagoletis cerasi L.). Anz. Schädl.kunde 25. 1952, 100—102.

Vogel, W., Witterung und Kirschenfliegenbekämpfung im Jahre 1951. Schweiz. Ztschr. Obst-, Weinbau 61. 1952, 67—71, 3 Abb.

Vogel, W., Zur Kirschenfliegenbekämpfung. Schweiz. Ztschr. Obst-, Weinbau 61. 1952, 270—271.

Vogel, W., Zur Kirschenfliegenbekämpfung im Jahre 1952. Schweiz. Ztschr. Obst-, Weinbau 61. 1952, 201—203.

Weber, G., Erfolgreiche Bekämpfung der Kirschfruchtfliege. [Rhagoletis cerasi] Hess. Obstbau 7. 1952, 71—73.

Weber, G., Großeinsatz von Nebel- und Sprühgeräten zur Bekämpfung der Kirschfruchtfliege in Hessen. Anz. Schädl.kunde 25. 1952, 53—56, 1 Landkarte.

Weinberger, J. H., Winter injury to peach trees on Yunnan stock. [nematode, Meloidogyne incognita, M. javanica] Plant Dis. Reptr. 36. 1952, 307—308, 1 fig.

Weinman, C. J., Effect of early season sprays against plum curculio on peaches. J. econ. Ent. 45. 1952, 646—651.

Wilson, N. S., and **Cochran, L. C.,** Yellow spot, an eriophyid mite injury on peach. Phytopathology 42. 1952, 443—447, 4 fig.

Yothers, M. A., Westlake, W. E., and **Buttler, L. I.,** Studies on deposites of insecticides used by growers against the cherry fruit fly (second report, 1951—1952). Washington State hortic. Assoc. 48. 1952, 213—214, 216—219.

Die **Kirschenfliegenbekämpfung** in der Schweiz auf genossenschaftlicher Grundlage. Chemie, Techn. Landw. 3. 1952, 63—64.

Schildläuse an Steinobst. Rhein. Bauernztg. 6. 1952, 149.

Virus

Blodgett, E. C., and **Twomey, J. A.,** The 1952 western X little cherry and western X disease surveys. Proc. Washington State hortic. Assoc. 48. 1952, 154—155.

Blodgett, E. C., Williams, H. E., Diener, T. O., and **Barrat, J. G.,** Index tests for virus in Myrobalan plum. [Prunus cerasifera] Phytopathology 42. 1952, 512 (Abstr.).

Bruer, H. L., and **Shepard, C. E.,** Wild plum in relation to the control of phony disease. Phytopathology 42. 1952, 282 (Abstr.).

Cation, D., Further studies on transmission of ring spot and cherry yellows viruses through seeds. Phytopathology 42. 1952, 4 (Abstr.).

Cochran, L. C., Interference between forms of the ring spot virus in peach trees. Phytopathology 42. 1952, 512 (Abstr.).

Cochran, L. C., Virus invasion of tops of certain naturally immune stone fruits when grown on infected rootstocks. Phytopathology 42. 1952, 512 (Abstr.).

Gilmer, R. M., Brase, K. D., and **Parker, K. G.,** Virus-free sour cherry trees. Farm Res. (New York State Stat.) 18. 1952, 10.

Goidànich, G., Le »macchie rosse« del pesco. (»Red spots« on peach trees.) Ann. Sperim. agr., Roma, 6 (n. ser.). 1952, 1267—1270, 1 tab. col.

Goidànich, G., (Peach mosaic.) Inform. Fitopat., Bologna, 2. 1952, 89—92.

Jensen, D. D., Frazier, N. W., and **Thomas, H. E.,** Insect transmission of yellow leaf roll virus of peach. J. econ. Ent. 45. 1952, 335—337.

Jones, L. E., and **Milbrath, J. A.,** The influence of western X little cherry virus upon seed size and viability. Phytopathology 42. 1952, 515 (Abstr.).

KenKnight, G., Comparison of a phloroglucinol test with the acid one for phony. Phytopathology 42. 1952, 285 (Abstr.).

KenKnight, G., Distribution of wood giving a positive reaction to the acid test for phony in graft-inoculated peach trees. Phytopathology 42. 1952, 468.

Kobel jr., F., Das Problem der Steinobstvirosen in den USA. Schweiz. Ztschr. Obst-, Weinbau 61. 1952, 419—422, 2 Abb.; 449—454, 2 Abb.

Kristensen, H. R., (Cherry tatter leaf disease, a new virus disease in Denmark.) Erhvervsfrugtavleren, Odense (Danmark), 19. 1952, 60—61.

Milbrath, J. A., The mora virus disease of sweet cherry. Phytopathology 42. 1952, 347—348, 2 fig.

Milbrath, J. A., The prevalence of ring spot virus in a latent condition in cherries. Plant Dis. Reptr. 36. 1952, 137—139.

Milbrath, J. A., Selecting stone fruit trees free from virus diseases. Oregon agric. Exp. Stat. Bull. 522. 1952, 27 p.

Millikan, D. F., and **Hibbard, A. D.,** Influence of virus upon the growth of one year old sour cherry nursery trees. Phytopathology 42. 1952, 470.

Moore, J. D., and **Slack, D. A.,** Interaction of strains of necrotic ring spot virus. Phytopathology 42. 1952, 470—471.

Mulder, D., Een hypothese over de oorzaak van het verschil tussen primaire en sekundaire symptomen bij de Eckelraderziekte van zoete kersen. (A hypothesis on the cause of the difference between primary and secondary symptoms of the Eckelrader-disease of the sweet cherry.) Tijdschr. Plantenziekten 58. 1952, 21—24.

Nichols, C. W., Hot water treatments of some stone fruit viruses. Phytopathology 42. 1952, 517 (Abstr.).

Nyland, G., Separation of sour cherry yellows and ringspot viruses by passage through the seeds of Stockton Morello. Phytopathology 42. 1952, 517—518 (Abstr.).

Persons, T. D., Phony peach disease — a review of organized control from 1929 to 1951 and the effect of recent developments on future control programs. Phytopathology 42. 1952, 286—287 (Abstr.).

Richards, B. L., Deep suture — a virus-like disease of sweet cherry. Farm, Home Sci. (Utah Stat.) 13. 1952, 31, 46.

Shepard, C. E., and **Bruer, H. L.,** The incidence of phony disease in plum thickets as related to proximity of infected peach orchards. Phytopathology 42. 1952, 287 (Abstr.).

Shepard, C. E., and **Bruer, H. L.,** Wild plum in relation to the control of phony disease. Proc. Assoc. south. agric. Workers 49. 1952, 133 (Abstr.).

Slack, D. A., Dodder transmission of a virus from X-diseased peach and sand cherry. [Cuscuta subinclusa] Phytopathology 42. 1952, 475.

Stoll, K., Das Kirschbaumsterben im Baselland. 4. Mitteilung. Über die Verbreitung und die Erscheinungsformen der Krankheit im Jahre 1951. Landw. Jahrb. Schweiz 66. 1952, 255—278, 2 Abb., 4 Taf.

Stoll, K., Über die Symptome und Bekämpfungsmöglichkeiten von Viruskrankheiten an Kirschbäumen. Schweiz. Ztschr. Obst-, Weinbau 61. 1952, 63—67, 2 Abb.

Stout, G. L., Peach yellow bud mosaic. Bull. Dept. Agric. Calif. 41. 1952, 53—57.

Stout, G. L., Schlocker, A., and **Wagnon, H. K.,** Peach yellow bud mosaic. Bull. Dept. Agric. Calif. 41. 1952, 53—57, 3 fig., 2 tab. col.

Wadley, B. N., Symptoms in sweet cherry produced by western X-disease virus from peach. Phytopathology 42. 1952, 519 (Abstr.).

Wadley, B. N., Year-to-year variation in symptom expression of western X-disease on peaches in Utah. Phytopathology 42. 1952, 519 (Abstr.).

Welsh, M. F., Studies of the masking of little cherry disease symptoms. Phytopathology 42. 1952, 477—478.

Willison, R. S., Some observations on virus diseases of the cherry. 13th int. hortic. Congr., London, Mimeogr. Pap. 1952, 6 p.

Willison, R. S., and **Berkeley, G. H.,** An experiment in cross protection with some stone fruit viruses. Proc. canad. phytopath. Soc. nr. 19. 1952, 20 (Abstr.).

Willison, R. S., and **Weintraub, M.,** Comparative studies of stone fruit viruses on herbaceous hosts. Proc. canad. phytopath. Soc. nr. 19. 1952, 23 (Abstr.).

Wolfe, H. R., and **Anthon, E. W.,** Spray programs in stone fruit orchards decrease populations of insect vectors of the western X-disease virus. Proc. 48th Ann. Meetg. Washington State hortic. Assoc. 1952, 156—157.

Kernobst
Pip fruits — Fruits à pépins

Allgemeiner Teil
General part — Partie générale

Bernstorff, H., Qualitätsverbesserung durch Baumschnitt und Spritzung bei der Apfelsorte »Finkenwerder Prinz«. Mitt. Mitgl. Obstbauvers.ring Altes Land usw., York, 7. 1952, 224—226.

Blair, D. S., Chemical thinning of apples. Nova Scotia Fruit Growers' Assoc. Ann. Rept. 89. 1952, 21—22.

Böhm, H., Steinige Früchte. Pflanzenarzt, Wien, 5. 1952, Nr. 7, S. 6.

Borden, A. D., Operation: spraying. [spraying methods for insecticides and fungicides] Pear Growers League Ann. 1952, 19, 21, 23, 25.

Burrell, A. B., Efficiency in spraying, with special consideration of concentrates. Proc. Connecticut pomol. Soc. 61 (1951). 1952, 61—81.

Clark, P. J., Barr, H. E., and **Camden-Cooke, A.,** Selenium content of apples. New Zealand J. Sci., Technol. (B) 34. 1952, 245—247.

Comelli, A., Description des »galeuses« ou »galleuses« de Bretagne. Fruits d'outre mer, Paris, 7. 1952, 213—214.

Davison, R. M., Chemical thinning of apples. Main factors influencing effectiveness of sprays. Orchardist New Zealand 25. 1952, nr. 8, p. 20—21, 23.

Eickstedt, H. v., Die Stickstoffdüngung in Verbindung mit der Schädlingsbekämpfung bei Apfelbäumen. Obstbau 71. 1952, 106—107, 4 Abb.

Ellenwood, C. W., Chemical thinning sprays. Proc. Ohio State hortic. Soc. 1952, 70—79.

Fischer, R., Die Lentizellenbräune der Äpfel. Pflanzenarzt, Wien, 5. 1952, Nr. 4, S. 3—4, 1 Abb.

Ford, O. W., and **Burkholder, C. L.,** Mercury spray residues — their estimation on apples at harvest time. Agric. Chem., Baltimore, 7. 1952, nr. 7, p. 44—47, 123, 1 fig.

Fritzsche, R., Anleitung zur Bekämpfung der abwechselnden Tragbarkeit bei Apfelbäumen mit Hilfe von Alpha-naphthylessigsäurehaltigen Mitteln. Schweiz. Ztschr. Obst-, Weinbau 61. 1952, 173—174.

Gould, E., Apple spraying experiences in West-Virginia, with special reference to yield, color and finish. Mountaineer Grower 22. 1952, nr. 193, p. 1,3,5,7,9,11, 15, 17, 19.

Harvey, H. R., Did forced production kill his apple trees? Better Fruit, Portland, 46. 1952, nr. 10, p. 6—7.

Horsfall jr., F., Spray thinning of apples. Virginia Fruit (Virginia State hortic. Assoc.) 40. 1952, nr. 3, p. 32, 34, 38.

Imbert, L., Les altérations des pommes et poires. Terre d'Oc (France) 35. 1952, 119—121.

Jacks, H., Compatibility of spray materials used in New Zealand on pears. Dept. sci., ind. Res., Plant Dis. Div., Auckland, [1952], 1 p.

Juscafresa, B., El escaldado de las manzanas. Cultivador mod., Barcelona, 35. 1952, 256.

Krüssmann, Etwas über die Mispel, Mespilus germanica. Dtsch. Baumschule 4. 1952, 43—45.

Loewel, E. L., Was ist mit Boskoop los? Mitt. Mitgl, Obstbauvers.ring Altes Land usw., York, 7. 1952. 44—48, 3 Abb.

Loewel, E. L., Weißenborn, K., und **Spieß, K.,** Verlief die in diesem Jahr zum erstenmal empfohlene Spritzung während der Apfelblüte gefahrlos für die Bienen? Mitt. Mitgl. Obstbauvers.ring Altes Land usw., Jork, 7. 1952, 190—194.

May, A. W. S., Apple pest control in the Granite Belt. Queensland Fruit, Veg. News (Austr.) 2. 1952, nr. 36, p. 3—5.

Mitchell, A. E., Do organic compounds pay-off in the apple spraying program? Michigan State hortic. Soc. Ann. Rept. 81 (1951). 1952, 20—24.

Morita, S., and **Aoki, A.,** Studies on the soils of apple orchards in Japan. II. On the soils of the apple orchards in Aomori Prefecture. Physical und chemical properties in general. J. hortic. Assoc. Japan 20. 1952, 205—208.

Murneek, A. E., Chemical spray thinning of apples. Missouri State hortic. Soc. hortic. News 1952, 3—4.

Nellis, D. C., 1952 apple spray program. East. Fruit Grower (West Virginia) 14. 1952, nr. 11, p. 24.

O'Neill, W. J., and **Hantsbarger, W. H.,** Lessons of 1951 apple and pear pest control experiments. West. Fruit Grower, San Francisco, 6. 1952, 29—30.

Oppenfeld, H. v., Boynton, D., Brann, J. L., Burrell, A. B., and **Shepardson, E. S.,** Cost and effectiveness of different insect and disease control practices in New York apple orchards. New York (Cornell) agric. Exp. Stat. Bull. 886. 1952, 75 p.

Perdriau, M., La protection sanitaire du pommier dans l'Est des USA. Rev. hortic., Paris, 124. 1952, 653—657.

Potter, J. M. S., The history of the apple. J. R. hortic. Soc., London, 77. 1952, 65—75.

Pratt, A. N., Andes, J. O., and **Stanley, W. W.,** A suggested apple spray program for 1952. Tennessee Hortic. 30. 1952, nr. 2, p. 1—9.

Rodney, D. R., Factors affecting the entrance of nitrogen compounds through the epidermis of apple leaves. Ohio State Univ. Abstr. Doct. Diss. 62 (1949/50). 1952, 445—451.

Shay, J. R., The control of late summer diseases of apple. Hoosier Hortic., Lafayette, 34. 1952, 51—54.

Shibukawa, J., Hosogai, S., Sotokawa, T., and **Soma, M.,** (Studies on the soil erosion control in the apple orchards.) I-II. J. hortic. Assoc. Japan 20. 1952, 181—190.

Southwick, F. W., and Weeks, W. D., The influence of chemical thinning treatments on yield and flowering of apples. Proc. amer. Soc. hortic. Sci. 60. 1952, 165—172.

Swartwout, H. G., Jenkins, L., and Martin jr., W. R., Spraying suggestions for commercial apple orchards, 1952. Missouri agric. Coll. Ext. Circ. 611. 1952, 11 p.

Taubert, G., Sortenanfälligkeit und Spritzmittelwirkung gegen Apfelschorf, Apfelmehltau und Rote Spinne. Zentralbl. dtsch. Erwerbsgartenbau 4. 1952, Nr. 8, S. 1, 3, 3 Abb.

Tavernier, J., et Jacquin, P., Assimilation et fixation du bore par le pommier et le poirier fumés au borax microdosage colorimétrique du bore dans différents organes de ces arbres fruitiers et dans les sols. Ann. agron., Paris, 3. 1952, 755—793, 14 fig.

Tunis, W. D., Garman, P., and Stoddard, E. M., 1953 spray guide for apples. Connecticut agric. Coll. Ext. MP-2. 1952, 3 p.

Tunis, W. D., Garman, P., and Stoddard, E. M., 1953 spray guide for pears. Connecticut agric. Coll. Ext. MP-4. 1952, 2 p.

Vlasveld, W. P. N., (What is the matter with the apples?) Fruitteelt, Arnhem, 42. 1952, 642—643.

Vrijhof, B., Chemisch bloemdunnen bij appels. Tuinbouwgids, Den Haag, 1952, 392.

Zhilitskii, I. A., (Ability of roots of an apple tree to grow after injury.) Sad i Ogorod (Orchard and Garden) 9. 1952, 30—32.

Bekämpfung der abwechselnden Tragbarkeit bei Apfelbäumen. [Alpha-naphthylessigsäurehaltige Mittel] Schweiz. Ztschr. Obst-, Weinbau 61. 1952, 196.

1956 spraying recommendations for apples. New Jersey agric. Coll. Ext. Spray Calendar 50. 1952, 11 p.

Report of the director of food investigation for 1950. [apples] Food Invest. Board, London, Rept. 1950. 1952, 9—35.

Sprøjtning af aeble-og paeretraeer. Stat. Forsøgsvirks. Plantekult., København, Meddel. 122. 1952, 19. ed., 4 p., 5 fig.

Nichtparasitäre Krankheiten
Diseases not caused by parasites
Maladies non parasitaires

Aleksandrow, F. A., (Die Rolle der Adventivknospen bei der Wiederherstellung der Lebensfähigkeit von frostgeschädigten Apfelbäumen.) Bot. Zh. (Bot. J.) 37. 1952, 691—694.

Batjer, L. P., and Rogers, B. L., What is the best stop-drop spray for apples and pears? Proc. 48th Ann. Meetg. Washington State hortic. Assoc. 1952, 175—177.

Beattie, J. M., Baldwin apples affected in size, color and acid by nitrogen applications. Ohio Farm, Home Res. (Ohio Stat.) 37. 1952, 74, 82.

Blair, D. S., Reduction of pre-harvest drop in apples by spraying with growth regulating substances. Nova Scotia Fruit Growers' Assoc. Ann. Rept. 89. 1952, 12—15.

Blair, D. S., and Nelson, S. H., Save those dollars. [control of pre-harvest drop in apples through the application of growth regulating substances] Macdonald Coll. J., Quebec, 12. 1952, nr. 12, p. 7—9.

Bullock, R. M., Preharvest sprays reduce cherry cracking. West. Fruit Grower, San Francisco, 6. 1952, nr. 2, p. 32.

Burrell, A. B., Cumulative effects of lime sulfur and Ferrox flotation sulfur on McIntosh apple trees. Phytopathology 42. 1952, 463—464.

Burrell, A. B., Boynton, D., and Crowe, A. D., The boron content of McIntosh apple leaves and fruits in relation to symptoms and methods of application. Phytopathology 42. 1952, 464.

Cinq-Mars, L., Effect of certain fungicides on the growth and yield of apple trees. Quebec (Prov.) pomol., Fruit Growing Soc. Ann. Rept. 1951. 1952, 44—53.

Davidson, J. H., Suggestions for the use of color set in 1952. [pre-harvest drop in apples] Down to Earth, Midland (Michigan), 8. 1952, 8—10.

Encke, F. v., Die Stippenkrankheit der Äpfel. Illustr. Flora, Wien, 75. 1952, 126.

Erickson, L. C., Brannaman, B. L., and Hield, H. Z., Response of delicious and Rome beauty apples to a preharvest spray of 2, 4, 5-trichlorophenoxypropionic acid in southern California. Proc. amer. Soc. hortic. Sci. 60. 1952, 160—164.

Gerhardt, F., and Sainsbury, G. F., Soft scald and its control in delicious apples. Proc. Washington State hortic. Assoc. 48. 1952, 97—100.

Goidànich, G., (Leaf scorch of the William pear.) Inform. Fitopat., Bologna, 2. 1952, 120—124.

Hannigan, M. A., Fruit drop in apples. Queensland Fruit, Veg. News (Austr.) 2. 1952, nr. 12, p. 23.

Hewetson, F. N., Concentrate applications of 2, 4, 5-TP sprays for delaying the pre-harvest drop of apples. Proc. 93rd Ann. Meetg. Pennsylv. State hortic. Soc. 9. 1952, nr. 1, p. 58—60.

Hochapfel, H., Die Bedeutung des Bors bei der Kultur von Apfelsämlingen im Zusammenhang mit der Bodenmüdigkeit. Mitt. Biol. Zentralanst. H. 74. 1952, 82—86, 2 Abb.

Hoffman, M. B., and Edgerton, L. J., Comparisons of naphthaleneacetic acid, 2, 4, 5-trichlorophenoxypropionic acid and 2, 4, 5-trichlorophenoxyacetic acid for controlling the harvest drop of McIntosh apples. Proc. amer. Soc. hortic. Sci. 59. 1952, 225—230.

Jones, J. O., and Dermott, W., Copper deficiency in pears. Agriculture, J. Minist. Agric., London, 59. 1952, 35—37.

Kay, K., Monkman, L., Windish, J. P., Doherty, T., Paré, J., and **Racicot, C.,** Parathion exposure and cholinesterase response of Quebec apple growers. Arch. ind. Hyg., occup. Med, Baltimore, 6. 1952, 252—262.

Kirby, A. H. M., and **Bennett, M.,** An effect of phenyl mercury chloride on pear leaves. East Malling Res. Stat. Ann. Rept. 1951. 1952, 187—188, 1 tab.

Kobel, F., Frostschäden an Früchten der Zucalmaglio-Reinette. Schweiz. Ztschr. Obst-, Weinbau 61. 1952, 385—386, 1 Abb.

Luckwill, L. C., The mechanism of fruit drop in pome fruits and its control by synthetic growth substances. 13th int. hortic. Congr., London, Mimeogr. Pap. 1952, 6.

Maurer, K. J., Zur Entstehung von Doppelfrüchten beim Apfel. Hess. Obstbau 7. 1952, 37—38.

Mezzetti, A., (The »vitrescence« of apples.) Inform. Fitopat., Bologna, 2. 1952, 101—104.

Moon, H. H., Harley, C. P., and **Regeimbal, L. O.,** Early-season symptoms of magnesium deficiency in apple. [at Beltsville, Md.] Proc. amer. Soc. hortic. Sci. 59. 1952, 61—64, 1 fig.

Mulder, D., Nutritional studies on fruit trees. II. The relation between potassium, magnesium and phosphorus in apple leaves. Plant and Soil, The Hague, 4. 1952, 107—117, 3 fig. (Inst. plantenziektendg. Onderz., Wageningen, Meded. nr. 42).

Oland, K., (The physiological effect of fungicides on apple trees.) Gartneryrket (Norge) 42. 1952, 35—38.

Pickett, W. F., and **Bates, J. C.,** The influence of naphthalene acetic acid and sodium dinitro foliage sprays on the internal structure of Jonathan apple leaves. Proc. amer. Soc. hortic. Sci. 60 1952, 173—174.

Priol, J., (Experiments with alpha-naphthaleneacetic acid (NAA) spray preventing pre-harvest drop of fruits on apple and pear trees.) Arh. poljoprivr. Nauke, Tekn., Beograd, 5. 1952, nr. 7, p. 24—45.

Priol, J., Hormoni v sadjarstwu. Škropilni poskusi zu preprečenje odpadanja plodov pri jabolkih in hruškah. (Hormones in horticulture. Spraying trials for the control of fruit drop in apples and pears.) Arh. poljoprivr. Nauke, Tekn., Beograd, 5. 1952, nr. 7, p. 22.

Refatti, E., and **Ciferri, R.,** (Boron deficiency in apples.) Italia agric. 89. 1952, 182—188.

Refatti, E., e **Ciferri, R.,** Defogliazione, flittene della scoza, rachitismo e necrosi su meli, nella regione Trentino-Alto Adige da brocarenza. (Defoliation, bark measles, stunting and bark necrosis of apple trees by boron deficiency, in the region Trentino-Alto Adige.) Not. Mal. Piante nr. 18. 1952, 1—20, 8 fig.

Saffie D., Z., Efectos del 2, 4, 5-T, aplicado en manzanos para obtener mejor coloration. Simiente, Santiago de Chile, 22. 1952, 27.

Smykow, W. K., (A study on the winter hardiness of quinces at Mičurinsk.) Dokl. Vsesoiuzn. Akad. Sel'skohoz. Nauk im. V. I. Lenina (Proc. Lenin Acad. agric. Sci.) 17. 1952, nr. 9, p. 15—18.

Southwick, F. W., Hormones for thinning and drop control. Proc. Connecticut pomol. Soc. 61 (1951). 1952, 84—97.

Southwick, F. W., New hormone. [2, 4, 5-trichlorophenoxypropionic acid for pre-harvest drop of apples] Res. Rev. [Massachusetts Stat.] 1. 1952, 8—9.

Tarasenko, M. P., (Frost injury to apple trunks in relation to rootstocks and scions.) Agrobiologiia, Moskwa, 1. 1952, 151—153.

Thompson, A. H., Developments in use of 2, 4, 5-Tp for control of pre-harvest drop of apples. Mountaineer Grower 22. 1952, nr. 190, p. 14—15, 17—19, 21—22.

Thompson, A. H., Further experiments with 2, 4, 5-trichlorophenoxypropionic acid sprays for control of the pre-harvest drop of apples. Proc. amer. Soc. hortic. Sci. 60. 1952, 175—183.

Thompson, A. H., A new hormone for the control of pre-harvest drop of apples. Mountaineer Grower 21. 1951, nr. 185, p. 7—12.

Trocmé, S., Observations sur la carence en magnésium du pommier. Compt. rend. Acad. Agric. France 38. 1952, 49—52.

Vahl, E. v., Sonnenbrand und Glasigkeit bei Äpfeln. Mitt. Mitgl. Obstbauvers.ring Altes Land usw., York, 7. 1952, 13—14, 2 Abb.

Vrijhof, B., Once more: artificial coloring of apples. [effects of spraying on apples] Fruitteelt, Arnhem, 42. 1952, 641.

Vyvyan, M. C., and **Trowell, G. F.,** Use of sprays to control fruit drop. VIII. Further trials with NAA sprays on the apple variety Bramley's Seedling. IX. Further trials of the effects of delay in picking and of NAA sprays on fruit drop in Cox's Orange Pippin. East Malling Res. Stat. Ann. Rept. 1951 (39). 1952, 108—114.

Watson, D. P., Effect of Elgetol sprays on pistils of apple flowers. Proc. amer. Soc. hortic. Sci. 60. 1952, 151—154.

Woodbridge, C. G., Carney, A., and **McLarty, H. R.,** A boron deficiency in pear growing in soil having an adequate boron content. Sci. Agric., Ottawa, 32. 1952, 440—442, 3 fig.

Le gel, une cause de la déformation des poires. Rev. rom. Agric., Vitic., Arboric. 8. 1952, 30—31, 2 fig.

Pflanzliche Feinde
Vegetal parasites — Parasites végétaux

Akai, S., and **Shishyama, J.,** Studies of wood-decay. V. Physiological studies on Trametes vittata (Berk.) Lloyd causing the white rot of stems of pear. (Wood Research) (Japan) nr. 8. 1952, 28—43, 8 fig., 8 tab.

Aerts, R., L'oïdium du pommier. Fruit belge, Gembloux, 20. 1952, 113—115.

Anderson, H. W., Maintaining virulent cultures of Erwinia amylovora and suggestion of overwinter survival in mummied fruit. (on pear) Plant Dis. Reptr. 36. 1952, 301—302.

Berducou, J., Le rôle de l'acide indol-β-acétique dans la formation des chancres parasitaires chez les végétaux. [Nectria galligena in apple trees] Compt. rend. Acad. Sci., Paris, 235. 1952, 309—311.

Braun, Rinden- oder Kragenfäule der Äpfel. Rhein. Monatsschr. Gemüse-, Obst-, Gartenbau 40. 1952, 29. — Landw. Ztschr. Nord-Rheinprov. 119. 1952, 36.

Byrde, R. J. W., The effect of age of wound and of weather on susceptibility of apple injuries to infection by the brown rot fungus. Ann. Rept. agric., hortic. Res. Stat., Long Ashton (Bristol), 1951. 1952, 128—131.

Byrde, R. J. W., Crowdy, S. H., and **Roach, F. A.,** Observations on apple canker. V. Eradicant spraying and canker control. Ann. appl. Biol. 39. 1952, 581—587.

Byrde, R. J. W., Crowdy, S. H., and **Roach, F. A.,** The role of eradicant sprays in the control of apple canker. Ann. Rept. agric., hortic. Res. Stat., Long Ashton (Bristol), 1951. 1952, 134—137.

Canova, A., Marciume delle pere causato da lieviti. (Rot of pear fruits caused by yeasts.) [Torulopsis pulcherrima, Mycotorula sp., Saccharomyces apiculatus] Ann. Sperim. agr., Roma, 6 (n. ser.). 1952, 367—371, 9 fig.

Crowdy, S. H., Observations on apple canker. IV. The infection of leaf scars. Ann. appl. Biol. 39. 1952, 569—580, 3 fig., 1 tab.

De Sousa, J. S. I., (Bitter rot of apples.) [Glomerella cingulata] Chacaras e Quintaes, São Paulo, 85. 1952, 424—425.

Dunegan, J. C., Goldsworthy, M. C., Moon, H. H., and **Wilson, R. A.,** A rapid method for testing susceptibility of pear seedlings to Erwinia amylovora. Phytopathology 42. 1952, 341 (Abstr.).

Foschi, S., La forma ascofora dell'oidio del melo [Podosphaera leucotricha (Ell. et Ev.) Salm.] in Italia. (The ascigerous stage of apple powdery mildew [Podosphaera leucotricha (Ell. and Ev.) Salm.] in Italy.) Ann. Sperim. agr., Roma, 6 (n. ser.). 1952, 1421—1430, 3 fig.

Gaudineau, M., L'oïdium (Podosphaera leucotricha) du pommier. Congr. Pomol. France Sess. 82. 1952, 69—73.

Goidànich, G., e **Delitala, A.,** Alterazioni delle mele. [Gloeosporium Riessii, Phialophora malorum] Italia agric. 1952, nr. 2, 7 p., 4 fig., 1 tab. col.

Govi, G., (Sooty spot [Gloeodes pomigena] of apple.) Inform. Fitopat., Bologna, 2. 1952, 109—111.

Hiroe, I., (Phytopathological studies on black spot disease of Japanese pears.) [Alternaria] Ann. phytopath. Soc. Japan 16. 1952, 127—131.

Hochapfel, H., Stand der Apfelmehltaubekämpfung. Mitt. Biol. Zentralanst. H. 74. 1952, 77—81, 1 Abb.

Issa, E., O »oidio« da Macieira. (Apple »oidium«.) [Podosphaera leucotricha] Biológico, São Paulo, 18. 1952, 83—84, 1 fig.

Jauch, C., Antracnosis del peral y del manzano. Almanaque Minist. Agric., Ganad., Buenos Aires, 26/27. 1951/52, 384.

Jenkins, P. T., Sphaeropsis canker of apples. J. Dept. Agric. Victoria 50. 1952, 183—185.

Kawamura, T., and **Ishii, K.,** (Application of mercuric fungicides to black spot of pear.) J. Plant Prot., Tokyo, 41. 1952, 411—413.

Kienholz, J. R., Progress in controlling bulls-eye rot of apple fruits. Proc. Oregon State hortic. Soc. 67. 1952, 39, 41—42.

Leyendecker jr., Ph. J., Cytospora canker of apple in New Mexico. Plant Dis. Reptr. 36. 1952, 276—277, 1 fig.

Miller, P. R., Fungicides tested on fruit fire blight. [Erwinia amylovora on apple and pear] Agric. Chem., Baltimore, 7. 1952, nr. 9, p. 61—63.

Moore, M. H., An intensive field method for testing fungicides for apple trees. East Malling Res. Stat. Rept. 1951. 1952, 139—147, 2 tab.

Moore, M. H., and **Bennett, M.,** Scab, canker, and branch blister of apple at East Malling in relation to nutritional treatment of the host. Ann. appl. Biol. 39. 1952, 588—598.

Mukoo, K., Studies on the causal bacteria of the loquat canker. [Eriobotrya japonica] (Bull. Nat. Inst. agric. Sci., ser. C (Plant Path., Ent.), Nishigahara, 1952, nr. 1, p. 1—184, 59 fig.)

Murneek, A. E., Thiolutin as a possible inhibitor of fire blight. [Erwinia amylovora] Phytopathology 42. 1952, 57.

Palmiter, D. H., Rust diseases of apples and their control in the Hudson Valley. [Gymnosporangium juniperi-virginianae, G. globosum, G. clavipes] New York State agric. Exp. Stat. Bull. nr. 756. 1952, 26 p., 13 fig.

Poulos, P. L., and **Heuberger, J. W.,** Frog-eye leaf spot (black rot) control under epiphytotic conditions. [Physalospora obtusa] Plant Dis. Reptr. 36. 1952, 410—411.

Pupillo, M., L'antracnosi del melo e del pero. Inform. Fitopat., Bologna, Pubbl. quindic. (Gr. II) 2. 1952, 12—13, 3 fig.

Schad, C., and **Grente, J.,** Le dépérissement du pommier. Compt. rend. Acad. Agric. France 38. 1952, 571—574.

Shay, J. R., and **Hough, L. F.,** Inheritance of cedar rust resistance in apple. Phytopathology 42. 1952, 19 (Abstr.).

Smeding, P., (Spots on leaves and fruit of the Zwijndrechtse wine pear.) [Mycosphaerella sentina] Fruitteelt, Arnhem, 42. 1952, 109, 117.

Sprague, R., Blossom sprays and dust curb (pear) fire blight. West. Fruit Grower, San Francisco, 6. 1952, nr. 2, p. 47.

Sprague, R., Here's how to check apple powdery mildew. Better Fruit, Portland, 46. 1952, nr. 9, p. 6, 10.

Sprague, R., Mildew spray trials at the Tree Fruit Station in 1952. [powdery mildew of apples] Proc. Washington State hortic. Assoc. 48. 1952, 27—30.

Sprague, R., and **Hord, H. H. V.,** The reappearance of silver leaf in the apple orchards of Washington State. [Stereum purpureum] Plant Dis. Reptr. 36. 1952, 30.

Tanaka, S., (Studies on the fungitoxicity of copper sprays.) Bull. hortic. Div. Tôkai-Kinki agric. Exp. Stat. 1952, nr. 1, p. 105—127, fig.

Taylor, J., The relationship between fire blight and apple black rot in North Georgia orchards. [Erwinia amylovora, Physalospora obtusa] Plant Dis. Reptr. 36. 1952, 412, 1 fig.

Taylor, J., Some North Georgia apple production problems. [Physalospora obtusa] Phytopathology 42. 1952, 288 (Abstr.). — Proc. Assoc. south. agric. Workers 49. 1952, 132 (Abstr.).

Thomas jr., W. D., and **Henderson, W. J.,** Fire blight loses its sting. [control on apples and pears] Colorado Farm, Home Res. (Colorado Stat.) 3. 1952, 6—7, 10—11.

Thomas jr., W. D., and **Henderson, W. J.,** Spray experiments for the control of fire blight on apples and pears, 1947—1950. [Erwinia amylovora] Plant Dis. Reptr. 36. 1952, 273—275.

Togliani, F., Contributo alla conoscenza di uno sferossidale del genere Peyronellaea. (A contribution to the knowledge of a sphaeropsidal fungus of the genus Peyronellaea.) [on apple] Ann. Sperim. agr., Roma, n. ser. 6. 1952, 81—94, 7 fig.

Tomkins, R. G., Lenticel rotting of apples. [fungi] Kent Farmer (England) 1. 1952, 267, 269, 271.

Torikata, H., and **Komai, Y.,** Studies on the resistance of Japanese pear to the black spot disease fungus (Alternaria kikuchiana Tanaka). III. On the polyphenol oxidase in the fungus-free filtrate of culture media. Ann. phytopath. Soc. Japan 16. 1952, 63—68.

Tufts, W. P., Fire blight control in California. [pears] Amer. Fruit Grower, Cleveland (Ohio), 72. 1952, nr. 2, p. 40—41.

Van der Plasse, J. J., (Scald on apples.) Betuws Tuinbouwbl. (Nederland) 9. 1952, nr. 21, p. 6.

Wade, G. C., Black rots of apples. Austr. Plant Dis. Recorder 4. 1952, 33.

Woodhead, C. E., Facts about control of grey mould in pears. [Botrytis cinerea] Orchardist New Zealand 25. 1952, nr. 7, p. 21, 23.

Woodhead, C. E., and **Jacks, H.,** Nature and control of ripe spot of apples. [Neofabraea malicorticis] New Zealand J. Agric. 84. 1952, 239—240, 1 fig.

Zobrist, L., und **Fröhlich, H.,** 10 Jahre Versuche zur Bekämpfung des Apfelmehltaues (Podosphaera leucotrichi [E. et E.] Salm.). Phytopath. Ztschr. 19. 1952, 431—440, 4 Abb.

Ist Krebs beim Apfelbaum heilbar? Rhein. Bauernztg. 6. 1952, 169.

Plant diseases. Two diseases of turf. Bitter pit of pome fruits. [Rhizoctonia, Curvularia et Sclerotinia] Agric. Gaz. New South Wales 63. 1952, 200—203, 5 fig.

Venturia (Fusicladium)

Banta, E. S., Scab-resistant apples. Amer. Fruit Grower, Cleveland (Ohio), 72. 1952, nr. 5, p. 18.

Black, J. D. F., Black spot control on apples and pears. [Venturia inaequalis, V. pirina] J. Dept. Agric. Victoria 50. 1952, 352—354, 6 fig.

Blumer, S., Das Auftreten und die Bekämpfung des Schorfes im Jahre 1951. Schweiz. Ztschr. Obst-, Weinbau 61. 1952, 7—9, 1 Abb.

Blumer, S., Die Schorfbekämpfung setzt ein! Schweiz. Ztschr. Obst-, Weinbau 61. 1952, 142.

Boone, D. M., and **Keitt, G. W.,** Induced biochemical mutants in Venturia inaequalis. Phytopathology 42. 1952, 479.

Boral, D., Kara leke hastaliği ve Kocaelindeki durum. (Der Obstschorf und die Lage in Kocaeli.) Tomurcuk, Istanbul, 1952, nr. 2, p. 18.

Burnet, I. M., Controlling scab on apples. Some trials with the new foliage fungicides. [Venturia inaequalis] Fruit Grower, London, 1952, 553—554.

Burrell, A. B., Spraying apples at Burrell Orchards. [scab control] Amer. Agriculturist 149. 1952, 33, 47.

Byrde, R. J. W., Fielding, A. H., and **Marsh, R. W.,** Spraying experiments against apple and pear scab at Long Ashton, 1951. Ann. Rept. agric., hortic. Res. Stat., Long Ashton (Bristol), 1951. 1952, 122—128.

Byrde, R. J. W., and **Marsh, R. W.,** Spraying experiments against apple and pear scab al Long Ashton. Ann. Rept. agric., hortic. Res. Stat., Long Ashton (Bristol), 1951. 1952, 131—133.

Carlier, L., Lutte contre le mildiou et la tavelure. Rev. agric. Afr. Nord 50. 1952, 352.

Cinq-Mars, L., Comment on lutte contre la tavelure du pommier. Agriculture, Paris, 9. 1952, 424—430.

Colombin, A., Les avertissements agricoles pour les tavelures en 1951. [Venturia inaequalis, V. pirina] Phytoma, Paris, 5. 1952, nr. 43, p. 10—14, 2 fig.

Croxall, H. E., Gwynne, D. C., and **Jenkins, J. E. E.,** The rapid assessment of apple scab on fruit. Plant Path., London, 1. 1952, 89—92, 1 fig.

Croxall, H. E., Gwynne, D. C., and **Jenkins, J. E. E.,** The rapid assessment of apple scab on leaves. Plant Path., London, 1. 1952, 39—41, 1 fig.

Croxall, H. E., and **Jenkins, J. E. E.,** Apple and pear scab spraying trials in the West Midlands, 1951. Worcestershire agric. Chron. 20. 1952, 145, 147, 149.

Darpoux, H., Efficacité d'un produit à base de N. Trichlorométhylthiotétrahydrophtalimide sur la tavelure du poirier. Phytiatrie-Phytopharmacie nr. 2. 1952, 13—17.

Darpoux, H., Mise au point d'une nouvelle méthode d'avertissements contre les tavelures du pommier et du poirier. [Venturia inaequlis, V. pirina] Phytoma, Paris, 5. 1952, nr. 43, p. 15—18, 4 fig.

Darpoux, H., Les tavelures du pommier et du poirier. [Venturia inaequalis, V. pirina, respectively] Agric. prat., Paris, 116. 1952, 309—310.

Dawydow, P. N., (Experiments in the control of apple scab.) Sad i Ogorod (Orchard and Garden) 7. 1952, 73.

De Jonge, C., (Chemical preparations for control of scab.) Betuws Tuinbouwbl. (Nederland) 10. 1952, nr. 2, p. 4—5.

Dillon Weston, W. A. R., Storey, I. F., and **Ives, J. V.,** Apple scab in the Wisbech area. Gard.' Chron., London, 132 (3. ser.). 1952, 195.

Einset, O., (Spraying against apple scab.) Norsk Hagetidend, Oslo, 68. 1952, 95—98.

Ejsing, G., (Spreading of spores and time for spraying apple orchards.) [scab] Erhvervsfrugtavleren, Odense (Danmark), 18. 1952, 108—112.

Flipse, L. P., (Control of scab.) Fruitteelt, Arnhem, 42. 1952, 369.

Flipse, L. P., and **Besemer, A. L. H.,** What sprays do we use against scab? Fruitteelt, Arnhem, 42. 1952, 112—113, 130.

Gešele, E. E., (Particulars in controlling apple scab in the Omsk Region.) Sad i Ogorod (Orchard and Garden) 7. 1952, 72—73.

Godbout, F., The control of apple scab in 1952. Quebec (Prov.) pomol., Fruit Growing Soc. Ann. Rept. 1951. 1952, 54—58.

Harris, M. R., Apple scab situation in 1952. Proc. Washington State hortic. Assoc. 48. 1952, 34—35.

Harris, M. R., Here is how to control apple scab in your orchard. Better Fruit, Portland, 46. 1952, nr. 9, p. 15—16.

Harriss, R. W., Mainly on apple scab. [Venturia inaequalis] Fruit Grower, London, 1952, 865—866.

Hey, G. L., Was lime sulphur early enough? [apple scab] Grower, London, 37. 1952, 249—250.

Hough, L. F., and **Shay, J. R.,** The use of tetraploids in breeding scab-resistant apples. Phytopathology 42. 1952, 11—12 (Abstr.).

Hus, P., (Control of scab of apples an pears.) [Venturia inaequalis, V. pirina] Meded. Landbouwhoogesch., Opzoek.stat. Gent 17. 1952, 157—162.

Issa, E., (Venturia inaequalis on apples.) Rev. Soc. rur. brasil., São Paulo, 32. 1952, nr. 374, p. 66, 68.

Kearns, H. G. H., Marsh, R. W., and **Morgan, N. G.,** Spray application problems: IV. Preliminary field experiments on the control of apple scab by small-volume sprays. Ann. Rept. agric., hortic. Res. Stat., Long Ashton (Bristol), 1952, 90—95.

Keitt, G. W., Inheritance of pathogenicity in Venturia inaequalis (Cke.) Wint. Amer. Naturalist, Lancaster (Pa.), 86. 1952, 373—390, 10 fig.

Keitt, G. W., and **Boone, D. M.,** Additional gene pairs conditioning pathogenicity in Venturia inaequalis. Phytopathology 42. 1952, 480 (Abstr.).

Keyer, E. J., and **Dijksterhuis, H. P.,** (Scab observations 1951.) Fruitteelt, Arnhem, 42. 1952, 114—117.

Klett, Spätschorfspritzung im Obstbau. Württ. Wochenbl. Landw. 119. 1952, 676.

Kumer, Der Schorf und seine Bekämpfung. Obst- u. Gartenbau, Stuttgart, 7. 1952, 73—74.

Loewel, E. L., Der augenblickliche Stand der Mittelfrage in der Fusikladiumbekämpfung unter besonderer Berücksichtigung von Netzschwefel und Quecksilber. Mitt. Biol. Zentralanst. H. 74. 1952, 68—72.

Loewel, E. L., und **Baumeister, G.,** Regenspritzungen in Amerika. Mitt. Mitgl. Obstbauvers.ring Altes Land usw., Jork, 7. 1952, 16—17.

Louw, A. J., Spuitproewe teen appelskurfsiekte [Venturia inaequalis (Cke.) Wint.] in die winterreënstreek van die Kaapprovinsie. (Spraying tests for apple scab disease [Venturia inaequalis (Cke.) Wint.] in the winter rain district of Cape Province.) Un. South Afr. Dept. Landb.-wetensk. Pamphl. 315. 1952, 32 p.

Luchetti, G., and **Maccanti, M.,** (Control of apple scab.) Agric. ferrarese (Italia) 56. 1952, 244—245.

Marsh, R. W., Scab spraying trials in 1951. Fruit Grower, London, 2934. 1952, 529—530 (Abstr.).

Maseroli, E. N., (Scab of pears and apples.) Avvenire agric., Milano, 60. 1952, 21.

Moore, M. H., and **Bennett, M.,** Scab, canker, and branch blister of apple at East Malling in relation to nutritional treatment of the host. Ann. appl. Biol. 39. 1952, 588—598.

Moore, J. D., and **Keitt, G. W.,** The spray program for apple scab control; the 1952 recommendation for Wisconsin. Wisconsin Hortic. 42. 1952, 145—146.

Peglion, V., (Fusicladium, parasite of pome fruits.) Italia agric. 89. 1952, 366—368.

Refatti, E., e **Lepori, L.,** Ticchiolatura tardiva di magazzino su frutti di pero. (Late scab on pears in storage.) [Fusicladium pirinum] Ann. Sperim. agr., Roma, 6 (n. ser.). 1952, 1217—1234, 7 fig.

Refatti, E., Lepori, L., and **Trentini, R.,** (Late attacks of scab on »Curato« pears.) Italia agric., Roma, 89. 1952, 203—207.

Robin, F., et **Bouhier de l'Ecluse, R.,** Peut-on simplifier des traitements contre la tavelure? Compt. rend. Acad. Agric. France 38. 1952, 60—63.

Schrader, E., Der Schorfwarndienst im Obstbau. Gartenwelt 52. 1952, 100—101, 2 Abb.

Shay, J. R., and **Hough, L. F.,** Evaluation of apple scab resistance in selections of Malus. Amer. J. Bot. 39. 1952, 288—297, 12 fig.

Sörgel, P., Über die Wirksamkeit verschiedener Bekämpfungsmittel gegen Apfelschorf zur Nachblütespritzung in Unterfranken. Pflanzenschutz, München, 4. 1952, 91—95, 1 Abb.

Sprague, R., Control of apple scab; program developed in eastern Washington. West. Fruit Grower, San Francisco, 6. 1952, nr. 4, p. 27—28.

Sprague, R., Spray trials and observations on control of apple scab in north central Washington in 1952. Proc. Washington State hortic. Assoc. 48. 1952, 31—33.

Stapley, J. H., Low-volume spraying of top fruit. Search, London, 1952, nr. 4, p. 18—21.

Stojanović, D., (Investigations of the possibility of the control of apple scab.) Saschtita Bilja (Plant Prot.), Beograd, nr. 9. 1952, 35—41, 3 fig.

Termohlen, G. P., (Scab resistance of apples.) Fruitteelt, Arnhem, 42. 1952, 965—967.

Termohlen, G. P., (What can we do about scab control?) [breeding of scab resistant apples] Fruitteelt, Arnhem, 42. 1952, 673.

Turnbull, J., Apple scab spraying competitions in Kent. Agriculture, J. Minist. Agric., London, 58. 1952, 588—592.

Turnbull, J., The control of apple scab in difficult conditions. Fruitgrower, Fruiterer, Florist, Market Gardr., London, 1952, 891—892.

Van Belle, G., (Spraying against scab.) Fruitteelt, Arnhem, 42. 1952, 227—228.

Vlasveld, W. P. N., (On the biology of scab.) [Venturia inaequalis] Fruitteelt, Arnhem, 42. 1952, 110—111, 131.

Wade, G. C., Black spot (Venturia inaequalis) of apples. Fruit World, Mkt. Grower (Austr.) 53. 1952, nr. 9, p. 17, 19, 21, 23.

Wenzl, H., Die therapeutische Bekämpfung des Apfelschorfes (Venturia inaequalis). Pflanzenschutzberichte, Wien, 8. 1952, 75—92.

Wenzl, H., Was leisten die Schorfspritzungen? Pflanzenarzt, Wien, 5. 1952, Nr. 7, S. 8—10.

Zobrist, L., et **Fröhlich, H.,** Le problème de la lutte la tavelure. Parasitica, Gembloux, 8. 1952, 112—126, 9 fig.

Zwintzscher, M. (Selection of scab resistant fruit varieties.) Fruitteelt, Arnhem, 42. 1952, 973—974.

Apple and pear scab. Minist. Agric., Fish., London, Adv. Leafl. 245. 1952, 4 p.

Tierische Feinde
Animal parasites — Parasites animaux

Asquith, D., Bronzing of apple leaves sign of continuous feeding by mites. Pennsylv. agric. Exp. Stat. Bull. 540 (Suppl. 2). 1952, 8—9.

Bardía Bardía, R., La Hoplocampa [H. brevis] de las peras. Bol. Cám. Ofic. Agr. Barcelona 7. 1952, 163—165.

Bender, E., Der Wickler Capua reticulana. [an Äpfeln u. Birnen] Bad. Obst-, Gartenbauer 5. 1952, 177—178.

Bickel, E., Neuer Obstbaumschädling in England. [Adoxophes orana an Apfel] Schädlingsbekämpfung 44. 1952, 43.

Blunck, H., und **Janssen, M.,** Ein neuer gefährlicher Apfelschädling. [Capua reticulana] Gesunde Pflanzen 4. 1952, 115—116, 2 Abb.

Böhm, H., Beitrag zur Biologie und Bekämpfung der Apfel- und Birnensägewespe (Hoplocampa testudinea Klug., Hoplocampa brevis Klug., Hymenopt., Tenthredinidae). Pflanzenschutzberichte, Wien, 8. 1952, 129—149, 8 Abb.

Böhm. H., Saugschäden an Birnen- und Apfelblättern. [Birnblattbuckelwanze] Pflanzenarzt, Wien, 5. 1952, Nr. 11, S. 3—4, 3 Abb.

Borg, Å., Undersökningar över Aphelinus mali Hald. — blodlusens (Eriosoma lanigerum Hausm.) speciella parasit. (Investigations on Aphelinus mali Hald., the special parasite of the woolly aphis (Eriosoma lanigerum Hausm.).) Stat. Växtskyddsanst., Stockholm, Meddel. nr. 60. 1952, 75 p., 21 fig.

Boyce, H. R., Trials of acaricides against the European red mite, Metatetranychus ulmi (Koch), on apple. Ontario ent. Soc. Ann. Rept. 82 (1951). 1952, 17—21.

Chandler, S., Studies of plum curculio on apple in 1951. Trans. Illinois State hortic. Soc. 1951. 1952, 285—299.

Chapman, P. J., Lienk, S. E., and **Curtis jr., O. F.,** Responses of apple trees to mite infestations: I. J. econ. Ent. 45. 1952, 815—821, 2 fig.

Clancy, D. W., and **Pollard, H. N.,** The effect of DDT on mite and predator populations in apple orchards. J. econ. Ent. 45. 1952, 108—114, 4 fig.

Clark, P. G., The control of apple sawfly (Hoplocampa testudinea). [tests with benzene hexachloride, nicotine, parathion and toxaphene] Fruit Grower, London, 2940. 1952, 817—188.

Clark, P. G., New Tortrix moth (Adoxophyes orana) may be a serious menace. [on apples] Grower, London, 37. 1952, 313.

Clark, P. G., Results of experimental work: winter washing or no winter washing? [for control of insect pests of apples] Fruit Grower, London, 2931. 1952, 375—377.

Coutin, R., La cecidomyie des poirettes (Contarinia pyrivora Riley) dans ses rapports phenologiques avec le poirier. Trans. IXth int. Congr. Ent., Amsterdam, 1 (1951). 1952, 601—606, 4 fig.

Dean, R. W., The apple maggot [Rhagoletis pomonella] — past and present. Farm Res. (New York State Stat.) 18. 1952, 11.

De Sousa, J. S. I., (Scale insects of the quince tree.) Chacaras e Quintaes, São Paulo, 86. 1952, 675—677.

Dewisch, F., Die Birnentriebwespe (Janus compressus). Landwirtschaft, Wien, 5/6. 1952, 70—72.

Dicker, G. H. L., and **Briggs, J. B.,** Results of some experiments to control winter moth and tortricid larvae on apple. [Operophtera brumata] East Malling Res. Stat. Ann. Rept. 1951 (39). 1952, 169—171.

Dreiseitl, H., Bekämpfung der Blutlaus. [Eriosoma lanigerum] Salzburger Bauer 7. 1952, Nr. 3, S. 17—18.

Ejsing, G., (Danish experiments in fighting the pear gall mite.) [Eriophyes pyri] Gartneryrket (Norge) 42. 1952, 540, 542.

Ejsing, G., (Experiments on the control of pear gall mites (Eriophyes pyri?).) Haven, København, 52. 1952, 107. — Erhvervsfrugtavleren, Odense (Danmark), 18. 1952, 249—251.

Fiorito, G., (Spring control of apple and pear caterpillars.) [Carpocapsa, Hoplocampa, Hyponomeuta] Ispettorato prov. Agric. Napoli Circ. 6. 1952, 3—5.

Fukuda, J., (On the toxicity of DDT and BHC to the aphids and lady beetles of pear trees.) [Toxoptera oiricola, Nippolachnus piri, Harmonia axyridis] J. hortic. Assoc. Japan 21. 1952, 1—2.

Garman, P., and **Townsend, J. F.,** Control of apple insects. Connecticut (State) agric. Exp. Stat. Bull. 552. 1952, 84 p.

Genter, L. G., Medford pear pest control program. Proc. Oregon State hortic. Soc. 67. 1952, 17—19.

Glass, E. H., and **Chapman, P. J.,** The red-banded leaf roller and its control. [Argyrotaenia velutinana on apple] New York State. agric. Exp. Stat. Bull. nr. 755. 1952, 42 p., 10 fig.

Hallemans, A., (Worms in apples and pears; notes on the control of the fruit moth, Carpocapsa pomonella, and of the sinuate pear tree borer [Agrilus sinatus Oliv.].) Cult. en Handel 18. 1952, 336.

Hanspeter, Die Apfelblattschabe — ein gefährlicher Obstschädling. [Simaethis pariana] Pflanzenarzt, Wien, 5. 1952, Nr. 6, S. 4.

Harris, M. R., How to prevent rots in apples. Better Fruit, Portland (Oregon), 47. 1952, nr. 5, p. 7—8.

Hill, C. H., The biology and control of the scurfy scale on apples in Virginia. [Aspidiotus furfurus] Virginia agric. Exp. Stat. Techn. Bull. 119. 1952, 39, fig.

Houtman, G., (Two leaf miners, injurious to the apple leaf, Nepticula malella Hb. and Phytomyza heringiana Hendel.) Ent. Ber., Amsterdam, 14. 1952, 67—70.

Jancke, O., Über den Birnprachtkäfer. [Agrilus sinuatus] Trans. IXth int. Congr. Ent., Amsterdam, 1 (1951). 1952, 597—600, 1 Abb., 1 Karte.

Jancke, O., Weitere Untersuchungen über den Birnprachtkäfer und seine Bekämpfung. Höfchen-Briefe 5. 1952, 63—75, 5 Abb., 4 Landkarten.

Jenkins, L., How to know the apple insects. Missouri agric. Coll. Ext. Circ. 617. 1952, 12 p.

Kay, K., Safety research on parathion in the apple orchards of St. Hilaire and Rougemont. Quebec (Prov.) pomol., Fruit Growing Soc. Ann. Rept. 1951. 1952, 58—70.

Lalatta, F., (Experiments in the control of red spider (Metatetranychus ulmi) of apples.) Riv. Fruttic., Ravenna, 14. 1952, 159—166.

LaPlante, A. A., Early season apple insect control. News Letter New York State hortic. Soc. 8. 1952, nr. 3, p. 2—3.

MacCreary, D., and **Milliron, H. E.,** Occurrence of the smartweed borer and the European corn borer in apples. J. econ. Ent. 45. 1952, 348.

Madsen, H. F., Clean culture and chemicals show promise in controlling stink bug (Euschistus conspersus) on pear. West. Fruit Grower, San Francisco, 6. 1952, nr. 6, p. 27—28.

Massee, A. M., Fluctuations in orchard fauna. 13th int. hortic. Congr., London, Mimeogr. Pap. 1952, 8.

May, A. W. S., Apple pest control in the Granite Belt. Queensland agric. J. 75. 1952, 233—240.

Missonnier, J., Le psylle du poirier (Psylla pyri L.). Phytoma, Paris, 5. 1952, nr. 38, p. 8—11, 7 fig.

Mundinger, F. G., Control of pear Psylla. J. econ. Ent. 45. 1952, 934—939.

Newton, J. H., and **List, G. M.,** Woolly apple aphid in codling moth and mite control spray plots. J. econ. Ent. 45. 1952, 643—645.

Olney, V. W., Hood River apple and pear pest control. Proc. Oregon State hortic. Soc. 67. 1952, 21—22, 24.

O'Neill, W. J., San-José-scale [Aspidiotus perniciosus] control of apples and pears. West. Fruit Grower, San Francisco, 6. 1952, nr. 2, p. 53—54.

O'Neill, W. J., and **Hantsbarger, W. M.,** Apple and pear insect investigations at the Tree Fruit Experiment Station. Proc. Washington State hortic. Assoc. 48. 1952, 170—173.

Ossiannilsson, F., De svenska päronbladloppornas synonymik. [Psylla an Birne] Växtskyddsnotiser, Stockholm, 16. 1952, 29—30.

Paissanidis, S. E., Nuevo parásito en los manzanares de Rio Negro (»Eulia loxonephes«). Rev. argent. Agron. 19. 1952, 185—186.

Sala, R., La mieleta del peral (Psylla piri). Cultivador mod., Barcelona, 35. 1952, 218—219.

Sokolow, A. M., und **Sokolowa, R. A.,** (Die Rolle des osmotischen Drucks des Zellsafts bei der Widerstandsfähigkeit des Apfelbaumes gegen die grüne Apfelblattlaus — Aphis pomi Deg.) Dokl. Vsesoiuzn. Akad. Sel'skohoz. Nauk im. V. I. Lenina (Proc. Lenin Acad. agric. Sci.) 17. 1952, nr. 2, p. 12—18.

Solaroli, V., and **Bongiovanni, G. C.,** (Systemic insecticides and other products for control of green aphid of apple [Aphis pomi].) Italia agric. 89. 1952, 479—483.

Steiner, Ein neuer Apfelschädling breitet sich aus. [Capua reticulana] Württ. Wochenbl. Landw. 119. 1952, 697, 2 Abb.

Sylvén, E., Syrastekeln och dess bekämpning. [Ametastegia glabrata an Apfel] Växtskyddsnotiser, Stockholm, 16. 1952, 35—39, 2 fig.

Taylor, G. G., Spray treatments for control of leaf roller (Tortrix postvittana Walker) in apple orchards. New Zealand J. Sci., Technol. (Sect. A) 33. 1952, nr. 5, p. 98—103.

Taylor, G. G., Spray treatments for control of woolly-aphis (Eriosoma lanigerum (Haus.)) on apple trees. New Zealand J. Sci., Technol. (A) 34. 1952, 258—265.

Tunblad, B., The rowan tree moth (Argyresthia conjugella) and some of its helpers. [on apple] Fruktodlaren (sver. pomol. Fören.), Stockholm, 3. 1952, 66—68.

Turnipseed, G. F., and **Smith, C. F.,** Life history and control of scales on apples. Proc. Assoc. south. agric. Workers 49. 1952, 85 (Abstr.).

Weidner, Libelleneiablage an Apfelbaumzweigen. Ztschr. Pfl.krankh. 59. 1952, 277—278, 1 Abb.

Whitcomb, W. D., A cooperative test to evaluate methoxychlor for control of plum curculio on apples. J. econ. Ent. 45. 1952, 68—72.

Woodside, A. M., The apple bark borer (Thamnosphecia pyri). Virginia agric. Exp. Stat. Bull. 452. 1952, 16 p.

Woodside, A. M., Control of the pear borer in apple trees. J. econ. Ent. 45. 1952, 98—101.

Zimmermann, I., Schädigungen von Birnen durch Eichhörnchen. Schädlingsbekämpfung 44. 1952, 31—35, 5 Abb.

Zylka, St., Ein seltenes Schadbild an Birnenbüschen, verursacht durch die Birnentriebwespe (Cephus compressus F.). Gesunde Pflanzen 4. 1952, 269—270, 1 Abb.

Anthonomus

Böhm, H., Jetzt muß der Birnknospenstecher bekämpft werden! Pflanzenarzt, Wien, 5. 1952, Nr. 9, S. 5—6.

Charles, J., L'anthonome du pommier. Rustica (France) 25. 1952, 264.

Giulianelli, E., (Anthonomus pomorum and Anthonomus cinctus [i. e. piri].) Inform. Fitopat., Bologna, 2. 1952, 20—23.

Klett, Der Apfelblütenstecher. Württ. Wochenbl. Landw. 119. 1952, 238.

Klett, Apfelblütenstecher und Schorfsporen! Württ. Wochenbl. Landw. 119. 1952, 339.

Kuenen, D. J., Anthonomus pyri Koll and its attack on pears in the Netherlands. Proc. VIII. int. Congr. Ent., Stockholm, 1950, 657—661, 12 fig.

Kuenen, D. J., en **Lems, H. G.,** De invloed van het voedsel op de eiproductie van de perebloesemkever, Anthonomus cinctus Koll. (The influence of food on the eggproduction of the pearblossemweevil, Anthonomus cinctus Koll.) Tijdschr. Plantenziekten 58. 1952, 80—84, 3 fig.

Kundak, S., ve **Nizamlıoğlu, K.,** Anthonomus cinctus (pyri) armut kı̧ş göz kurdu. (Der Birnknospenstecher, Anthonomus cinctus.) Tomurcuk, Istanbul, 1952, nr. 3, p. 8—9.

Reich, H., Ein neuartiges Schadbild des Apfelblütenstechers (Anthonomus pomorum L.). Mitt. Mitgl. Obstbauvers.ring Altes Land usw., Jork, 7. 1952, 146—148, 3 Abb.

Tadić, M. D., Biologija kruškinog cvetojeda u nekim voćarskim reonima nr Srbije i Makedonije. (The pear bud weevil biology in some orchard regions of P. R. of Serbia and Macedonia.) [Anthonomus cinctus Redt.] Saschtita Bilja (Plant Prot.), Beograd, nr. 12. 1952, 52—69, 6 fig, 2 tab.

Lebensweise und Bekämpfung des Apfelblütenstechers. Obstbau 71. 1952, 37, 3 Abb.

Carpocapsa (Cydia, Laspeyresia)

Arndt, E., Obstmadenbekämpfung mit E 605 und Bleiarsen. Bad. Obst-, Gartenbauer 1952, 103—104.

Avidov, Z., Biological and ecological studies on the codling moth (Carpocapsa pomonella L.) in Israel. Ktavim, Rec. agric. Res. Stat., Rehovot (Israel), 2—3. 1952, 43—51.

Bachmann, F., Versuche zur Bekämpfung der Obstmade. Schweiz. Ztschr. Obst-, Weinbau 61. 1952, 71—75, 3 Abb.

Bender, E., Kann die Überwachung der Eiablage des Apfelwicklers Carpocapsa (Cydia) pomonella L. die Flugkontrolle ersetzen? Anz. Schädl.kunde 25. 1952, 68—72, 4 Abb.

Bevilacqua, I., (Two years of research on the control of Cydia (i. e. Carpocapsa) pomonella.) Riv. Ortoflorofruttic. ital. 36. 1952, 130—134.

Böhm, H., Auftreten von Carpocapsa dannehli Obr. in Österreich. [an Birnen] Pflanzenschutzberichte, Wien, 9. 1952, 100.

Böhm, H., Der »Marlinger Birnwurm« — ein neuer Schädling unserer Birnen. [Carpocapsa dannehli] Pflanzenarzt, Wien, 5. 1952, Nr. 12, S. 1—2, 3 Abb.

Bulger, W. O., and **Aamodt, T. T.,** To grow apples you can eat control the codling moth. Minnesota Horticulturist 80. 1952, 55.

Buscaroli, G. F., Sperimentazione con parathion contro la Carpocapsa pomonella L. (Versuche mit Parathion gegen Carpocapsa pomonella L.) Riv. Fruttic., Ravenna, 14. 1952, 167—170.

Coutin, R., Alimentation des larves de Laspeyresia pomonella L. (Lepidoptera, Tortricidae) sur milieux artificiels. Compt. rend. Soc. Biol., Paris, 146. 1952, 516—520.

Dickson, R. C., Barnes, M. M., and **Turzan, C. L.,** Continuous rearing of the codling moth. J. econ. Ent. 45. 1952, 66—68, 2 fig.

Düzgüneş, P. Z., ve **Tuatay, N.,** 1951 yılında Carpocapsa pomonella L.'e karşi lâboratuvarda yapılan ilâç denemeleri. Bitki Koruma Bült. (Bull. Plant Prot.), Ankara, 1952, nr. 1, p. 48—52, 3 fig.

Fiorito, G., (Spring control of apple and pear caterpillars.) [Carpocapsa, Hoplocampa, Hyponomeuta] Ispettorato prov. Agric. Napoli Circ. 6. 1952, 3—5.

Gambaro, P., (The behavior of Carpocapsa pomonella L. in relation to nutrition.) Riv. Ortoflorofruttic. ital. 36. 1952, 292—294.

Gómez Clemente, F., y del Rivero, J. M., Ataques de ácaros consecutivos a tratamientos de manzanos con DDT contra la Cydia pomonella L. Bol. Pat. veg., Ent. agríc., Madrid, 19. 1951—52, 147—159, 8 fig.

Groves, J. R., Supplementary measures for the control of codling moth, Cydia pomonella (L.). East Malling Res. Stat. Ann. Rept. 1951 (39). 1952, 174—178, 1 fig.

Hallemans, A., (Worms in apples and pears; notes on the control of the fruit moth, Carpocapsa pomonella, and of the sinuate pear tree borer [Agrilus sinatus Oliv.].) Cult. en Handel 18. 1952, 336.

Hamilton, A., Codling moth investigations in Nelson, 1948—49. New Zealand J. Sci., Technol. (A) 33. 1952, nr. 5, p. 90—97, 3 fig.

Jenkins, L., Is there evidence of codling moth (Carpocapsa pomonella) resistance to DDT. Proc. amer. Assoc. econ. Entomologists, North Centr. States Br., 7. 1952, 29.

Klett, Der Apfelwickler, ein Großschädling unseres Obstbaus. Württ. Wochenbl. Landw. 119. 1952, 498.

Latard, P., Le carpocapse en France en 1951 et quelques remarques sur la biologie. Phytoma, Paris, 5. 1952, nr. 41, p. 14—19, 3 fig.

Massee, A. M., The codling moth and its control. Fruit Yearb. (England) 1951. 1952, 74—76.

Michelbacher, A. E., and **Middlekauff, W. W.,** Fungus on codling moth [Carpocapsa pomonella]; fungus disease in overwintering stages of the walnut pest found to be an important natural controlling agent. Calif. Agric., Berkeley, 6. 1952, nr. 3, p. 13.

Müller, F. P., Richtige Nachblütenspritzung — weniger Obstmaden. Kleingärtner u. Siedler 6. 1952, 53, 1 Abb.

Newton, J. H., and **List, G. M.,** Woolly apple aphid in codling moth and mite control spray plots. J. econ. Ent. 45. 1952, 643—645.

Nizamlioğlu, K., ve **Çakillar, M.,** Carpocapsa pomonella L. (elma iç kurdu). (Carpocapsa pomonella L., die Obstmade.) Tomurcuk, Istanbul, 1952, nr. 2, p. 19—20.

Nizamlioğlu, K., ve **Çakillar, M.,** Carpocapsa pomonella L. 'nin biyolojisi. (Die Biologie von Carpocapsa pomonella L.) Tomurcuk, Istanbul, 1952, nr. 4, p. 14—15.

Rui, D., (Cydia (i. e. Carpocapsa) pomonella, integrated control.) Riv. Ortoflorofruttic. ital. 36. 1952, 137—139.

Seçkin, R., Ámasya'da Carpocapsa pomonella biyolojisinin tetkiki. Bitki Koruma Bült. (Bull. Plant Prot.), Ankara, 1952, nr. 1, p. 29—42, fig. 6.

Stephens, J. M., Disease in codling moth larvae produced by several strains of Bacillus cereus. [Cydia (Carpocapsa) pomonella] Canad. J. Zool. 30. 1952, 30—40, 1 fig., 1 tab.

Taylor, G. G., Spray treatments with lead arsenate for control of codling moth (Cydia pomonella L.) on apple trees. New Zealand J. Sci., Technol. (A) 34. 1952, 59—64.

Urlings, J., (When do the codling moths issue?) Meded. Dir. Tuinbouw 15. 1952, 358—362.

Der Apfelwickler, ein Großschädling unseres Obstbaues. Bad landw. Wochenbl. 119. 1952, 383—384.

Virus

Fogliani, G., Segnalazione della virosi a scopazzi del melo. (A record of the virosis witch's broom on apple tree.) Not. Mal. Piante nr. 21. 1952, 10—11, 6 fig.

Kristensen, H. R., (False sting — a new virus disease?) [of apples] Erhvervsfrugtavleren, Odense (Danmark), 18. 1952, 322—323. — Gartnertidende, København, 68. 1952, 287—288.

Posnette, A. F., and **Cropley, R.,** A preliminary report on strains of the apple mosaic virus. [severe mosaic strain, mild veinbanding strain, mild mosaic strain] East Malling Res. Stat. Ann. Rept. 39 (1951). 1952, 128—130, 2 fig.

Posnette, A. F., and **Cropley, R.,** The rubbery wood virus and apple propagation. East Malling Res. Stat. Ann. Rept. 39 (1951). 1952, 131—132, 1 tab.

Beerenobst
Bacciform fruits — Baies

Allgemeiner Teil
General part — Partie générale

Angell, G. N., The Oregon State College »indexing« program may offer Marshall strawberries a new lease on life. Washington Farmer 77. 1952, 4, 15.

Chamberlain, G. C., and **Putman, W. L.,** Diseases and insect pests of the raspberry in Canada. Canada Dept. Agric., Ottawa, Publ. 880. 1952, 32 p., 25 fig.

Cornuet, P., Les maladies des fraisiers et la sélection sanitaire. Bull. techn. Inform. Minist. Agric. France 67. 1952, 169—175.

Crowley, D. J., Harris, M. R., Brannon, D. H., Telford, H. S., and **Tidrick, R. E.,** Recommendations for the control of cranberry insects, weeds, and fungi. Washington State Coll. Ext. Circ. 144. 1952, 3 p.

Flipse, L. P., and **van Katwijk, W.,** (Stem diseases of rapsberries and blackberries.) Fruitteelt, Arnhem, 42. 1952, 128—130.

Fulton, J. P., »Clean« plants for the control of strawberry diseases. Arkansas Farm Res. 1. 1952, nr. 4, p. 12.

Fulton, R. H., The disease problem with small fruits. Michigan State hortic. Soc. Ann. Rept. 81 (1951). 1952, 68—71.

Fulton, R. J., The control of small fruit diseases. Proc. Michigan State hortic. Soc. 82. 1952, 65—68.

Houtman, G., (Diseases and pests of black currants.) Cult. en Handel 18. 1952, 18—20.

Juillet, A., et **Turquois, J.,** Applications de substances parthénocarpiques aux cultures de fraisiers. Phytoma, Paris, 5. 1952, nr. 37, p. 8—10, 1 fig.

Keyworth, W. G., Some problems of strawberry growers in England. [diseases] Proc. Connecticut pomol. Soc. 61 (1951). 1952, 105—107.

Klinkenberg, C. H., Some diseases and pests of strawberries. Groenten en Fruit 7. 1952, 609—611.

Liebster, Jetzt Erdbeeren pflanzen — anerkanntes Pflanzgut verwenden! Landw.bl. Weser-Ems 34. 1952, 838—839.

Luckan, J., Sengbusch, R. v., und **Schuppe, E.,** Neuzeitlicher Erdbeerenanbau. [Schädlingsbekämpfung] E. Ulmer, Stuttgart/z. Z. Ludwigsburg 1952. 87 S.

McCrory, S. A., and **Lazaruk, W.,** Mulching strawberry plants for winter protection. South Dakota agric. Exp. Stat. Bull. 420. 1952, 18 p., fig.

Mills, W. D., and **LaPlante, A. A.,** Diseases and insects of small fruits. New York agric. Coll. Cornell Ext. Bull. 306 (rev.). 1952, 55 p.

Müller, F. P., Die wichtigsten Erdbeerschädlinge. Kleingärtner u. Siedler 6. 1952, 70, 2 Abb.

Müller, H., Noll, L., und **Sorge, P.,** Erdbeeren. [Pflanzenschutz] Gartenverlag GmbH, Berlin-Kleinmachnow 1952. 103 S., 56 Abb.

Mussche, L., (Damage to strawberry culture.) (pests and diseases] Tuinbouwberichten 16. 1952, 53—54, 70—71.

Racicot, H.-N., and **Julien, J.-B.,** Maladies des petits fruits. Agriculture, Montréal (Quebec), 9. 1952, 380—386.

Starnes, O., Presenting the 1953 blueberry insect and disease control recommendations. New Jersey agric. Exp. Stat. Cranberry-Blueberry Res. Lab. Ann. Blueberry Open House 21. 1952, 15—17.

Swartwout, H. G., Thomas, G. W., and **Martin jr., W. R.,** Spraying raspberries. [spray schedule] Missouri agric. Coll. Ext. Circ. 616. 1952, 2 p.

Van Koot, Ij., en **Camfferman, J.,** Groeistofbespuiting ter verbetering van vruchtzetting bij tomaat, meloen, aardbei. Tuinbouwgids, Den Haag, 1952, 340.

Wilhelm, St., Soil fumigation battles berry diseases. West. Fruit Grower, San Francisco, 6. 1952, nr. 3, p. 21—23, 3 fig.

Control of insects and diseases on bush fruits. New Jersey agric. Coll. Ext. Spray Calendar 52. 1952, 8 p.

Raspberry diseases in Scotland. Scot. Dept. Agric. Adv. Leafl. 7 (n. ser.). 1952, 9 p., 9 fig.

Two diseases of the gooseberry. North Ireland Minist. Agric. Leafl. 49. 1952, 5 p.

Nichtparasitäre Krankheiten
Diseases not caused by parasites
Maladies non parasitaires

Bailey, J. S., Frost injury to blueberries. Fruit Varieties, hortic. Digest (Ohio) 4. 1949, 98.

Brierley, W. G., Landon, R. H., and **Stadtherr, R. J.,** The effect of daily alterations between 27 and 39 degrees F on retention or loss of cold resistance in the Latham raspberry. Proc. amer. Soc. hortic. Sci. 59. 1952, 173—176.

Filiptschenko, I. M., (A case of strawberry degeneration.) Agrobiologiia, Moskwa, 3. 1952, 131—135.

Fittschen, H., Nachtfröste im Erdbeer-Quartier. Land u. Frau 32. 1952, 260.

Jesse, A., Is frost prevention in strawberries practical. Proc. Oregon State hortic. Soc. 66. 1952, 92—93.

Llewelyn, F. W. M., and **Allen, M.,** The effect of wetter concentration on ammonium thiocyanate damage to raspberry leaves, and on the volume of spray required to achieve complete wetting. East Malling Res. Stat. Ann. Rept. 1951 (39). 1952, 119—121.

Llewelyn, F. W. M., and **Allen, M.,** A method of estimating scorch on leaves. [raspberry] East Malling Res. Stat. Ann. Rept. 1951 (39). 1952, 115—118, 2 fig.

Mundinger, F. G., and **Slate, G. L.,** Insecticide sprays as a probable control of »sterility« in blackberries. J. econ. Ent. 45. 1952, 135—136.

Staudt, G., Zur Selbststerilität von Fragaria viridis Duch. Vorläufige Mitteilung. Naturwissenschaften 39. 1952, 572, 1 Abb.

Wilhelm, St., Scott, C. E., and **Break, R. A.,** Die-back of blackberries. Calif. Agric., Berkeley, 6. 1952, nr. 2, p. 4, 12.

Pflanzliche Feinde
Vegetal parisites — Parasites végétaux

Alexopoulos, C. J., and **Cation, D.,** Gnomonia fragariae in Michigan. Mycologia, Lancaster, 44. 1952, 221—223.

Demaree, J. B., and **Smith, N. R.,** Blueberry galls caused by a strain of Agrobacterium tumefaciens. Phytopathology 42. 1952, 88—90, 2 fig.

Demaree, J. B., and **Smith, N. R.,** Nocardia vaccinii n. sp. causing galls on blueberry plants. [Vaccinium spp.] Phytopathology 42. 1952, 249—252, 2 fig.

Eglitis, M., Johnson, F., and **Crowley, D. C.,** Strains of Botrytis pathogenic to blueberries. Phytopathology 42. 1952, 513 (Abstr.).

Felix, E. L., Crown rot of strawberry. Phytopathology 42. 1952, 283 (Abstr.).

Felix, E. L., Rhizoctonia blight of strawberry. [R. solani] Phytopathology 42. 1952, 283 (Abstr.).

Fulton, J. P., Rhizoctonia leaf blight of strawberries. Phytopathology 42. 1952, 8 (Abstr.).

Fulton, R. H., Studies on Verticillium wilt of raspberry. Phytopathology 42. 1952, 8 (Abstr.).

Fulton, R. H., Verticillium wilt of raspberries. Michigan agric. Exp. Stat. Quart. Bull. 35. 1952, 248—264, fig.

Fulton, R. H., and **Grigsby, B. H.,** The effect of several soil treatments on mummy berry disease of blueberries in Michigan. [Monilinia (Sclerotinia) vaccinii-corymbosi] Michigan agric. Exp. Stat. Quart. Bull. 34. 1952, 297—302.

Fulton, R. H., and **Tompkins, J. P.,** Comparison of fungicides for the control of spur blight and anthracnose of raspberry. Phytopathology 42. 1952, 8 (Abstr.).

Geelen, T. E. J. M., De roestziekte van de zwarte bes. (Black currant rust.) [Cronartium ribicola] Fruitteelt, Arnhem, 42. 1952, 143.

Goheen, A. C., Summary of the 1951 cranberry fungicide tests. Proc. Ann. Meetg. amer. Cranberry Growers Assoc. 82. 1952, 8—10, 12.

Goodfellow, V. V., Fight stem rust; destroy rust-spreading barberry. North Dakota agric. Coll. Ext. Circ. A-169. 1952, 8 p.

Helton, A. W., The strawberry root rot problem. Idaho agric. Exp. Stat. Circ. 124. 1952, 2 p.

Hockey, J. F., Grey mould wilt of raspberry. [Botrytis] Sci. Agric., Ottawa, 32. 1952, 150—152, 2 fig.

Horn, N. L., Strawberry fungicide screening tests. Plant Dis. Reptr. 36. 1952, 309—310.

Jeffers, W. F., and **Scott, D. H.,** Significance of physiologic races of Phytophthora fragariae Hickman in breeding strawberries for resistance to the red stele disease. Phytopathology 42. 1952, 468.

Köhler, H., Ein Beitrag zur Ätiologie und Bekämpfung des Himbeerrutensterbens. [Didymella applanata, Leptosphaeria coniothyrium] Nachr.bl. dtsch. Pfl.-schutzd., Berlin, NF. 6. 1952, 36—42.

Köhler, H., Möglichkeiten zur Bekämpfung und Verhütung des Himbeerrutensterbens. [Didymella applanata, Leptosphaeria coniothyrium] Dtsch. Landw. 3. 1952, 319—322, 4 Abb.

Nelson, P. E., and **Wilhelm, St.,** Strawberry root anatomy with special reference to black root rot. Phytopathology 42. 1952, 517 (Abstr.).

Nolte, H.-W., Neuere Beiträge zur Analyse des Komplexes Himbeerrutensterben. [Didymella applanata, Leptosphaeria coniothyrium] Nachr.bl. dtsch. Pfl.-schutzd., Berlin, NF. 6. 1952, 147—149, 2 Abb.

Oort, A. J. P., Taksterfte bij bramen veroorzaakt door Septocyta ramealis (Rob.) Pet. (Dieback of blackberry caused by Septocyta ramealis (Rob.) Pet.) Tijdschr. Plantenziekten 58. 1952, 247—250, 4 fig.

Payette, A., Strawberry gangrene. [Botrytis cinerea Pers., Rhizoctonia solani Kühn] Proc. canad. phytopath. Soc. nr. 20. 1952, 20—21 (Abstr.).

Powell, D., The effect of early spring fungicides on Botrytis cinerea. [Fragaria] Plant Dis. Reptr. 36. 1952, 97—98.

Reid, R. D., Breeding strawberries resistant to red core root rot. Plant Dis. Reptr. 36. 1952, 395—405, 1 fig.

Rose, F. J., Soft fruits. J. R. hortic. Soc., London, 77. 1952, nr. 1, p. 12—19.

Schrödter, H., Über die Bedeutung klimatischer Faktoren für das Rutensterben der Himbeeren. Angew. Meteorol. 1. 1952, 184—189, 3 Abb.

Schrödter, H., und **Köhler, H.,** Untersuchungen über den Einfluß der Temperatur auf das Auftreten des Himbeerrutensterbens. [Didymella applanata, Leptosphaeria coniothyrium] Nachr.bl. dtsch. Pfl.schutzd., Berlin, NF. 6. 1952, 109—116, 6 Abb.

Sergeeva, K. D., (New Sphaerotheca-resistant gooseberry variety, the Russkii.) Sad i Ogorod (Orchard and Garden) 6. 1952, 74.

Smith, H. C., Strawberry fungous diseases in New Zealand. New Zealand R. Soc. sci. Congr. Rept. 1951. 1952, 47—48.

Starr, M. P., Cardona, C., and **Folsom, D.,** Bacterial fire blight of raspberry. [Erwinia] Phytopathology 42. 1952, 114 (Abstr.).

Tscheremisin, W., (Method of controlling Sphaerotheca on gooseberries.) Sad i Ogorod (Orchard and Garden) 1. 1952, 41.

Vaughan, E. K., The significance of raspberry yellow rust control. [Phragmidium rubi-idaei] Phytopathology 42. 1952, 477.

Wilhelm, St., Verticillium wilt and black root rot of strawberry. Calif. Agric., Berkeley, 6. 1952, 8—9, 14.

Wingrave, E. G., Botrytis cinerea on raspberries. Austr. Plant Dis. Recorder 4. 1952, 11.

Wingrave, E. G., A wilt disease in strawberries. Austr. Plant Dis. Recorder 4. 1952, 35.

Winter, H. F., Fungicides, timing of sprays, and methods of application for raspberry anthracnose control. Phytopathology 42. 1952, 23—24 (Abstr.).

New outlook on strawberry root rots. Fruit Grower, London, 1952, 1137—1138, 1 fig.

The red core disease of strawberry plants order, 1952. [Phytophthora fragariae] Plant Path., London, 1. 1952, 122.

Unkräuter
Weeds — Mauvaises herbes

Andrus, M., Experience with geese in the strawberry plantation. [weed control] Michigan State hortic. Soc. Ann. Rept. 81. 1952, 76—80.

Belzile, A., The problem of weeds in blueberry barrens. Proc. Canada nat. Weed Comm., East. Sect., 5 (1951). 1952, 120—124.

Bushue, H. J., Control of weeds in strawberries by use of 24DS. Proc. Oregon State hortic. Soc. 76. 1952, 53.

Danielson, L. L., Strawberry weeding. Plants and Gard., New York, 8. 1952, 51—52.

Davidson, J. H., A promising treatment for the control of chickweed (Stellaria media), German knotgrass (Scleranthus annuus) and sorrel (Rumex acetosella) in strawberries. Michigan State hortic. Soc. Ann. Rept. 81. 1952, 81—83.

Denisen, E. L., Chemical weed control in strawberries. Minnesota Horticulturist 80. 1952, 11, 15. — Iowa Farm Sci. 6. 1952, nr. 10, p. 13 (157), 1 fig.

Denisen, E. L., How to use Crag herbicide for weed control in strawberries. Wisconsin Horticulturist 42. 1952, 186.

Genzer, E. P., Mechanical weeding of strawberries. Proc. Oregon State hortic. Soc. 67. 1952, 55.

Hash, T. R., Geese in the berry planting. [weed eradication in strawberries] West Virginia agric. Coll. Ext. Misc. Publ. 12. 1952, 7 p.

Hemphill, D. D., Chemical weed control strawberries. Down to Earth, Midland (Michigan), 7. 1952, nr. 4, p. 8—10.

Hensill, G. S., Strawberry weed control. West. Fruit Grower, San Francisco, 6. 1952, nr. 3, p. 20.

Klingman, G. C., and **Morrow, E. B.,** Winter weed control in strawberries. Proc. south. Weed Conf. 5. 1952, 166—169.

Magill, W. W., Geese work overtime in strawberry fields. [weed control] New Jersey State hortic. Soc. hortic. News 33. 1952, 2476.

Peabody, D. V., Chemical weed control in strawberry fields. Proc. Oregon State hortic. Soc. 67. 1952, 51—52.

Roberts, W. W., and **Hemphill, D. D.,** Weed control in horticultural crops. 1. Chemical weed control in strawberries. Missouri agric. Exp. Stat. Res. Bull. 491. 1952, 33 p.

Trevett, M. F., Control of woody weeds in low-bush blueberry fields. Maine agric. Exp. Stat. Bull. 499. 1952, 23 p., fig.

Gänse als Unkrautjäger im Erdbeerfeld. Obst- u. Gartenbau, Stuttgart, 7. 1952, 120.

Tierische Feinde
Animal parasites — Parasites animaux

Allen, M. W., and **Raski, D. J.,** Nematodes on strawberries; preplanting soil fumigation controls root-lesion nematodes in experiments with strawberries on old apple land. Calif. Agric., Berkeley, 6. 1952, nr. 6, p. 3, 14.

Böhm, H., Die Erdbeermilbe — ein Feind unserer Erdbeerkulturen. [Tarsonemus fragariae] Pflanzenarzt, Wien, 5. 1952, Nr. 10, S. 3.

Brannon, D. H., Here's how to control pests in strawberry field. Better Fruit, Portland, 46. 1952, nr. 11, p. 14—15, 32.

Breakey, E. P., Control of insects in small fruits plantings. Proc. Oregon State hortic. Soc. 67. 1952, 67—71.

Breakey, E. P., Brannon, D., and **Eide, P. M.,** Control of strawberry root weevils [Brachyrhinus ovatus]. Washington State Coll. Ext. Circ. 169 (rev.). 1952, 4 p.

Crosse, J. E., and **Pitcher, R. S.,** Studies in the relationship of eelworms and bacteria to certain plant diseases. I. The etiology of strawberry cauliflower disease. Ann. appl. Biol. 39. 1952, 475—486, 1 tab.

Danilow, W. P., (Control of nematodes on strawberry stalks.) Sad i Ogorod (Orchard and Garden) 7. 1952, 73—74.

Darlington, E. P., Notes on blueberry-Lepidoptera in New Jersey. Trans. amer. ent. Soc. 78. 1952, 33—57.

Dicker, G. H. L., The biology of the strawberry aphid, Pentatrichopus fragaefolii (Cock.), with special reference to the winged form. J. hortic. Sci., London, 27. 1952, 151—178.

Dicker, G. H. L., Studies in population fluctuations of the strawberry aphid, Pentatrichopus fragaefolii (Cock.). I. Enemies of the strawberry aphid. East Malling Res. Stat. Ann. Rept. 39 (1951). 1952, 166—168.

Fallowfield, J., New insecticide's succes on strawberries. Fruit, Flower, Veg. Trades J., London, 10. 5. 1952, 19.

Fields, R., Cyclamen mite (Tarsonemus pallidus) danger to California's strawberry industry. West. Fruit Grower, San Francisco, 6. 1952, nr. 3, p. 24.

Franklin, H. J., Cranberry insects in Massachusetts. [Eriococcus azaleae, Hemiberlesia lataniae, Eulecanium (Lecanium) sp., Fumaria (Fumea) casta] Massachus. agric. Exp. Stat. Bull. nr. 445. 1952, 15 p., 11 fig.

Fraser, L. R., New records of foliar nematode. [Aphelenchoides fragariae] Austr. Plant Dis. Recorder 4. 1952, 36.

Gray, K. W., Controlling vectors of virus and other insect pests in strawberry plantings. Proc. Oregon State hortic. Soc. 67. 1952, 77—78.

Hahmann, K., und **Müller, H. W. K.,** Zum Auftreten und zur Bekämpfung der Erdbeermilbe. — 2. Beitrag. [Tarsonemus pallidus (fragariae Z.)] Nachr.bl. dtsch. Pfl.schutzd., Braunschweig, 4. 1952, 33—37, 1 Abb.

Hahmann, K., und **Piltz, H.,** Beobachtungen an der Roten Stachelbeermilbe (Bryobia praetiosa Koch). Nachr.bl. dtsch. Pfl.schutzd., Braunschweig, 4. 1952, 182—183, 1 Abb.

Hill, A. R., The bionomics of Lampronia rubiella (Bjerkander), the raspberry moth, in Scotland. J. hortic. Sci., London, 27. 1952, 1—13.

Hill, A. R., Observations on Lygus pabulinus (L.), a pest of raspberries in Scotland. East Malling Res. Stat. Ann. Rept. 1951 (39). 1952, 181—182.

Hill, A. R., A survey of insects associated with cultivated raspberries in the east of Scotland. Ent.'s mon. Mag., London, 78. 1952, 51—62.

Hutchinson, M. T., Further results in the control of cranberry scale (Aspidiotus oxycoccus.) Proc. Ann. Meetg. amer. Cranberry Growers' Assoc. 82. 1952, 21—24.

Hutchinson, M. T., Metacide for the control of cranberry scale. [Aspidiotus oxycoccus] Proc. Ann. Conv. amer. Cranberry Growers Assoc. 83. 1952, 13—17.

Johnson, J. H., A note on Macrothylacia rubi Linn. [Brombeerspinner] Ent. Rec., J. Variation 64. 1952, 22—23.

Journet, P., Contribution à l'étude de la sésie du groseillier. [Aegeria tipuliformis] Phytoma, Paris, 5. 1952, nr. 41, p. 24—25, 1 fig.

Kotte, W., Schädlingsbekämpfung beim Beerenobst. [Insekten] Bauern-Ztg. 5. 1952, Nr. 7, S. 7, 9.

Kuenen, D. J., (New possibilities for the control of big bud in black currants.) Meded. Dir. Tuinbouw 15. 1952, 722—726.

Lathrop, F. H., Fighting the blueberry fruit fly in Maine. [Rhagoletis pomonella Walsh.] Maine agric. Exp. Stat. Bull. 500. 1952, 34 p., 8 fig.

Lindhardt, K., Undersøgelser over angreb af nematoder på jordbaer i Danmark. Tidsskr. Planteavl, København, 55. 1952, 658—699, 5 fig.

Marshall, G. E., Strawberry insects and their control. Purdue Univ. agric. Ext. Leafl. nr. 344. 1952, 12 p.

Marucci, P. E., and Fort, W. Z., Illustrated commentary on maggot, cherry fruit worm [Grapholitha packardi] and other blueberry insects. New Jersey agric. Exp. Stat. Cranberry-Blueberry Res. Lab. Ann. Blueberry Open House 21. 1952, 11—15.

Maxwell, C. W. B., The overwintering habits of the strawberry weevil, Anthonomus signatus Say (Coleoptera: Curculionidae), in New Brunswick. Ontario ent. Soc. Ann. Rept. 82 (1951). 1952, 25—28.

Maxwell, C. W., and Morgan, G. T., Life-history studies of the cranberry fruitworm, Mineola vaccinii (Riley), in New Brunswick (Lepidoptera: Pyralidae). Ontario ent. Soc. Ann. Rept. 82 (1951). 1952, 21—25.

Miller, L. W., and Dillon, K. W. N., The strawberry mite [Tarsonemus pallidus], a new pest of strawberries in Tasmania. Tasmanian J. Agric. 23. 1952, 286—290.

Morgan, G. T., and Maxwell, C. W., Chlamisus sp. (Coleoptera: Chrysomelidae), a new pest of strawberries. Canad. Entomologist 84. 1952, 123—124.

Müller, W. K., Vorblütespritzungen gegen die Erdbeermilbe. Zentralbl. dtsch. Erwerbsgartenbau 4. 1952, Nr. 17, S. 6, 1 Abb.

Nolte, H.-W., Schlitzblättrigkeit als Folge von Himbeerkäfer-Fraß. [Byturus tomentosus, B. unicolor] Anz. Schädl.kunde 25. 1952, 170—171, 4 Abb.

Pitcher, R. S., Observations on the raspberry cane midge (Thomasiniana theobaldi Barnes). I. Biology. J. hortic. Sci., London, 27. 1952, 71—94.

Pitcher, R. S., and Webb, P. C. R., Observations on the raspberry cane midge (Thomasiniana theobaldi Barnes). II. »Midge blight«, a fungal invasion of the raspberry cane following injury by T. theobaldi. J. hortic. Sci., London, 27. 1952, 95—100.

Pritchard, A. E., A new gall midge pest (Asphonydylia photiniae) of toyon (Photinia arbutifolia) berries (Diptera: Itonididae). Pan-Pacific Ent. 28. 1952, 16.

Roesler, R., Holfidal gegen den Himbeerkäfer. [Byturus tomentosus] Anz. Schädl.kunde 25. 1952, 171—172.

Roesler, R., Die Stachelbeermilbe (Bryobia praetiosa Koch) in der Pfalz. Höfchen-Briefe 5. 1952, 15—18, 5 Abb.

Sawzdarg, E. E., (Experiment in combating the gooseberry Pyralidae.) Sad i Ogorod (Orchard and Garden) 5. 1952, 23—28.

Control of insects and diseases on strawberries. New Jersey agric. Coll. Ext. Spray Calendar 55. 1952, 4 p.

Neuer Schädling an Erdbeeren. Württ. Wochenbl. Landw. 119. 1952, 473.

Über Auftreten, Schadbild und Bekämpfung der Erdbeermilbe. Pflanzenschutz, München, 4. 1952, 96, 2 Abb.

Virus

Bovey, R., La panachure printanière du fraisier. Rev. rom. Agric., Vitic., Arboric. 8. 1952, 55—56, 2 fig.

Boyd, W. M., N. J. State inspection and certification for stunt disease of blueberry in 1952. New Jersey agric. Exp. Stat. Cranberry-Blueberry Res. Lab. Ann. Blueberry Open House 21. 1952, 6—7.

Brown, R. F. Western yellows in New Jersey strawberries. New Jersey State hortic. Soc. hortic. News 33. 1952, 2515, 2532.

Cadman, C. H., Studies in Rubus virus diseases. II. Three types of vein chlorosis of raspberries. III. A veinbanding disease of raspberries. IV. Yellows diseases of raspberries. V. Experiments in the analysis of Lloyd George decline. Ann. appl. Biol. 39. 1952, 61—68, 2 tab.; 69—77, 1 tab.; 495—500, 1 tab.; 501—508, 1 tab.

Cadman, C. H., and Harris, R. V., Leaf curl, a virus disease of raspberries in Scotland. J. hortic. Sci., London, 27. 1952, 201—211, 1 fig., 2 tab.

Cadman, C. H., and Harris, R. V., A lethal virus disease of Lloyd George raspberry in Scotland. J. hortic. Sci., London, 27. 1952, 212—214, 1 tab.

Cornuet, P., et Demolon, A., Sur l'extraction et l'inoculation par voie mécanique de certains virus affectant les fraisiers. Compt. rend. Acad. Sci., Paris, 235. 1952, 171—173.

Fulton, J. P., A tobacco necrosis virus associated with strawberry plants. Plant Dis. Reptr. 36. 1952, 313—314.

Fulton, J. P., Virus diseases in Arkansas strawberries. Proc. Arkansas Acad. Sci. 5. 1952, 11.

Fulton, R. H., Effect of heat treatment on the type 2 virus present in the Robinson strawberry. Plant Dis. Reptr. 36. 1952, 466—467.

Gray, K. W., Controlling vectors of virus and other insect pests in strawberry plantings. Proc. Oregon State hortic. Soc. 67. 1952, 77—78.

Harris, M. R., Yellows virus complex plagues strawberry growers. Better Fruit, Portland, 46. 1952, nr. 12, p. 12, 23, 25.

Huber, G. A., and Johnson, F., Black raspberry mosaic in Western Washington. Plant. Dis. Reptr. 36. 1952, 239—240, 2 fig.

Hunter, A. W. S., Strawberry viruses and the plant breeder. Rept. Proc. 8th Ann. Meetg. west. canad. Soc. Hortic. 1952, 12—15.

Kuenen, D. J., (New possibilities for the control of big bud in black currants.) Meded. Dir. Tuinbouw (Nederland) 15. 1952, 722—726.

Marcus jr., C. P., Survey for virus-infected wild strawberry plants in Eastern United States. Plant Dis. Reptr. 36. 1952, 353—354.

Massee, A. M., Transmission of reversion of black currants. [Phytoptus ribis Nalepa] East Malling Res. Stat. Ann. Rept. 39 (1951). 1952, 162—165.

Mather, S. M., Strawberry plant certification and registration in California. [virus disease control] Bull. Dept. Agric. Calif. 41. 1952, 3—8.

Mellor, F. C., and **Fitzpatrick, R. E.,** Strawberry virus complexes. Phytopathology 42. 1952, 516 (Abstr.).

Miller, P. W., Preliminary tests of wild strawberries from eastern Oregon for the presence of virus infection. Plant Dis. Reptr. 36. 1952, 352.

Miller, P. W., Relation of a fast period to the aphid transmission of the crinkle virus of strawberry. Plant Dis. Reptr. 36. 1952, 92—93.

Miller, P. W., Relation of temperature to persistence of strawberry yellows virus complex in strawberry aphid. [Capitophorus fragaefolii Ckll.] Plant Dis. Reptr. 36. 1952, 311—312.

Miller, P. W., Technique for indexing strawberries for viruses by grafting to Fragaria vesca. Plant Dis. Reptr. 36. 1952, 94—96, 3 fig.

Posnette, A. F., New virus diseases of Ribes. [Nasonovia ribisnigri, Iphidula (= Aphis schn.), A. grossulariae (= Aphis gr.)] East Malling Res. Stat. Ann. Rept. 39 (1951). 1952, 133—135.

Posnette, A. F., and **Bovey, R.,** Field studies on virus diseases of strawberries. I. The rate of virus spread in the variety Auchincruive Climax. East Malling Res. Stat. Ann. Rept. 39 (1951). 1952, 136—138.

Prentice, I. W., Resolution of strawberry virus complexes. V. Experiments with viruses 4 and 5. Ann. appl. Biol. 39. 1952, 487—494.

Scott, D. H., Ink, D. P., Darrow, G. M., and **Marcus, C. P.,** Virus as a hazard in strawberry breeding in eastern United States. Plant Dis. Reptr. 36. 1952, 89—91.

Skiles, R. L., and **King, T. H.,** Strawberry stunt virus in Fragaria vesca. Plant Dis. Reptr. 36. 1952, 406—407, 1 fig.

Smith, H. E., Aphid transmission of strawberry viruses from commercial plants to Fragaria vesca L. (East Malling clone). Phytopathology 42. 1952, 20 (Abstr.).

Smith, H. E., and **Moore, J. D.,** Dodder transmission of strawberry viruses. [Cuscuta sub-inclusa] Phytopathology 42. 1952, 20 (Abstr.).

Stitt, L. L., and **Breakey, E. P.,** Evidence that aphid control suppressed virus diseases of potatoes and strawberries in northwestern Washington. Meded. Landbouwhoogesch., Opzoek.stat. Gent 17. 1952, 94—110.

Thung, T. H., Waarnemingen omtrent de dwergziekte bij framboos en wilde braam. II. (Observations on the Rubus stunt disease in raspberries and wild blackberries.) Tijdschr. Plantenziekten 58. 1952, 255—259 (Meded. Inst. plantenziektenkdg. Onderz., Wageningen, nr. 49).

Virus, virus — everywhere! [Fragaria] Fruit Grower, London, 1952, nr. 2950, p. 62.

Schalenobst
Shell fruits — Fruits à coques

Allgemeiner Teil
General part — Partie générale

Batchelor, L. D., and **Calavan, E. C.,** Longevity of lemon trees; long-term selection experiments indicate strains least likely to decline or develop shell bark. Calif. Agric., Berkeley, 6. 1952, nr. 3, p. 9—10.

Calavan, E. C., and **Sufficool, J. R.,** Pruning lemon trees affected with dry bark, severe decline or collapse. Citrus Leaves 32. 1952, nr. 10, p. 6—9, 37.

Calavan, E. C., and **Sufficool, J. R.,** Renewal of shell-barked lemon trees by pruning. Phytopathology 42. 1952, 512 (Abstr.).

Calavan, E. C., and **Wallace, J. M.,** Lemon tree collapse not caused by the quick-decline virus. Plant Dis. Reptr. 36. 1952, 101—102.

Chevalier, A., Les maladies des agrumes ou citrus. Rev. int. Bot. appl., Agric. trop., Paris, 32. 1952, 488—490.

Davel, H. B., Research in agricultural problems. Farming South Afr. 27. 1952, 609—615.

Del Cañizo, J., La pulverización de naranjos en la región valenciana. Bol. Pat. veg., Ent. agríc., Madrid, 19. 1951—52, 289—297, 4 fig.

Erickson, L. C., Plant growth regulators for lemons. Calif. Citrogr. 37. 1952, 201—202.

Fletcher, W. A., Citrus pests and diseases in New Zealand; recognition and control. Queensland Producer (Australia) 33. 1952, nr. 3, p. 14—15; nr. 32, p. 15—16, 23.

Foote, F. J., Soil fumigation for citrus replanting. Calif. Citrogr. 37. 1952, 276, 286, 288.

Frézal, P., À quoi attribuer les accidents constatés récemment dans les orangeries algériennes. [maladies] Rev. agric. Afr. Nord 50. 1952, 277—279, 311—313.

Godfrey, G. H., Citrus nursery tree certification program in south Texas. Texas agric. Exp. Stat. Progr. Rept. 1477. 1952, 3 p.

Gómez Clemente, F., González Regueral, F., Planes García, S., Estudios sobre fumigación cianhídrica de naranjos realizados en la Estación de Fitopatología Agrícola de Burjasot (Valencia). Bol. Pat. veg., Ent. agríc., Madrid, 19. 1951—52, 87—106, 11 fig.

Griffiths, J. T., Williams, J. W., Stearns, C. R., and **Thompson, W. L.,** Health status of parathion when used on citrus in 1951. Proc. Florida State hortic. Soc. 64 (1951). 1952, 79—82.

Joiner, J., Citrus budwood certification: important program, if adopted, can save millions to growers. [disease-free stock] Florida Grower 60. 1952, nr. 7, p. 5, 42.

Mathias, A. F., Observation on operation of the spray program. Citrus Mag. 14. 1952, nr. 10, p. 21.

Minz, G., and **Gutter, Y.,** Post-war survey of diseases in Shamouti orange groves. Ktavim, Rec. agric. Res. Stat., Rehovot, (Israel), 2—3. 1952, 33—34.

Mortensen, E., Citrus tree decline at Winter Haven, Texas. Proc. Rio Grande Valley hortic. Inst. 6. 1952, 45—47.

Olson, E. O., Investigations of citrus rootstock diseases in Texas. Proc. Rio Grande Valley hortic. Inst. 6. 1952, 28—34.

Ovando C., L., Principales enfermedades de los citrus y su control. Bolivia Serv. agric. interamer., Div. Ext. agríc., Circ. Ext. 4. 1952, 7 p.

Pennisi, L., Indagine analitica sulla penetrazione del DDT nelle arance. (Analytical investigation on the DDT penetration into oranges.) Ann. Sperim. agr., Roma, 6 (n. ser.). 1952, 15—22.

Ross, A. A., Citrus growing. Queensland agric. J. 74. 1952, 187—209.

Sanchez Buedo, E., The diseases, pests and hazards of growing citrus crops in Spain. Plant Prot. Overseas Rev., London, 3. 1952, 13—17.

Scasso, J. M., La defensa de las plantaciones citricas. Almanaque Minist. Agric, Ganad., Buenos Aires, 26/27. 1951/52, 291—301.

Stearns jr., C. R., Griffiths, J. T., Thompson, W. L., and **Deszyck, E. J.,** Progress report on concentrated sprays on citrus in Florida. Proc. Florida State hortic. Soc. 64 (1951). 1952, 64—66.

Thompson, W. L., Wander, I. W., Fisher, F. E., and **Griffiths jr., J. T.,** The use of sulphur in citrus groves. Citrus Mag. 15. 1952, 28—30.

Thullbery, H. A., What is the cause of the defoliation in the tops of citrus trees in the ridge citrus area? Citrus Mag. 14. 1952, nr. 8, p. 19, 25.

Waibel, C., The program of certification of citrus budwood. Proc. Florida State hortic. Soc. 64 (1951). 1952, 39—42.

Some abnormalities of citrus. Agric. Gaz. New South Wales 63. 1952, 592—595, 11 fig.

Nichtparasitäre Krankheiten
Diseases not caused by parasites
Maladies non parasitaires

Adams, R. L., Protecting citrus groves from frost. Costs and benefits to growers. Calif. agric. Exp. Stat. Bull. 730. 1952, 61.

Aldrich, D. G., and **Coony, J. J.,** A field response of citrus to phosphorus and potassium fertilization. Proc. amer. Soc. hortic. Sci. 59. 1952, 13—21, 6 fig.

Alexander, C. C., and **Walsh, D.,** New chemical agent makes possible complete control of iron chlorosis. [on citrus] Agric. Chem., Baltimore, 7. 1952, nr. 7, p. 36—38, 5 fig.

Bartholomew, E. T., Carman, G. E., and **Stewart, W. S.,** Invisible injury of citrus. [insecticides] Fruit Veg. Rev. 13. 1952, nr. 10, p. 25.

Bedrikowskaja, N. P., (Nutrition and frost resistance of the mandarin tree.) Dokl. Vsesoiuzn. Akad. Sel'skohoz. Nauk im. V. I. Lenina (Proc. Lenin Acad. agric. Sci.) 17. 1952, nr. 4, p. 30—34.

Beyers, E., and **Joubert, G. F.,** Mineral deficiencies in citrus in the Citrusdal area. Farming South Afr. 27. 1952, 508—510, 3 fig.

Brooks, F. A., et al., Heat transfers in citrus orchards using wind machines for frost protection. Agric. Engin. 33. 1952, 74—78, 143—147, 154.

Camp, A. F., Chapman, H. D., et **Parker, E. R.,** Clé des symptomes de déficience des agrumes. Fruits d'outre mer, Paris, 7. 1952, 494.

Cooper, W. C., and **Gorton, B. S.,** Toxicity and accumulation of chloride salts in citrus on various rootstocks. Proc. amer. Soc. hortic. Sci. 59. 1952, 143—146.

Darcel, F. C., A review of recent investigations on citrus production, with particular reference to the mineral nutrition of the crop. Trop. Agric., Trinidad, 29. 1952, 77—87.

Davison, R. M., Control of pre-harvest drop of Washington navel oranges. New Zealand J. Sci., Technol. (A) 34. 1952, 306—312, 1 fig.

Davison, R. M., and **Cederman, J. A.,** Control of preharvest drop of sweet oranges by hormone sprays. Orchardist New Zealand 25. 1952, nr. 2, p. 4—5, 7.

Embleton, T. W., Kirkpatrick, J. D., and **Parker, E. R.,** Visible response of phosphorus-deficient orange trees to phosphatic fertilizers, and seasonel changes in mineral constituents of leaves. Proc. amer. Soc. hortic. Sci. 60. 1952, 55—64.

Erickson, L. C., Washington navel fruit drop; effects of 2, 4-D on drop of sound and unsound oranges when sprays were applied in the late fall and winter. Calif. Agric., Berkeley, 6. 1952, nr. 11, p. 7, 15.

Ford, H. W., The effect of spreading decline on the root distribution of citrus. Proc. Florida State hortic. Soc. 1952, 47—50.

Haas, A. R. C., Molybdenum deficiency symptoms in leaves or orange cultures. Calif. Citrogr. 37. 1952, 278, 288.

Haas, A. R. C., Symptoms of molybdenum deficiency. Citrus Leaves 32. 1952, nr. 5, p. 6, 7, 18.

Halse, N. J., Reduction of pre-harvest drop of Washington Navel oranges by 2, 4-D sprays. J. Dept. Agric. West. Austr. (ser. 3) 1. 1952, 327—330.

King, H. W., Frost hazard; review of steps taken to avoid damage to trees and fruit in susceptible areas. Citrus News, Melbourne, 28. 1952, 57.

Metcalf, R. L., and March, R. B., Behavior of octamethyl pyrophosphoramide in citrus plants. J. econ. Ent. 45. 1952, 988—997, 1 fig.

Nankivell, W. I., Winter drop of grapefruit. J. Dept. Agric. Victoria 50. 1952, 170—171.

Oka, C., (Some observations and studies on hail damages of Satsuma oranges.) Contrib. Citrus Exp. Stat., Shidzuoka (Japan), 34. 1952, 19 p.

Prochorow, N. K., (Increasing the frost resistance of mandarin oranges.) Agrobiologiia, Moskwa, 3. 1952, 44—49.

Rebour, H., Méfaits du froid et de la pluie dans nos orangeries. Fruits, Primeurs Afr. Nord 22. 1952, 111—112.

Reece, P. C., and Horanic, G. E., Some varietal responses of Florida oranges to pre-harvest sprays. Proc. Florida State hortic. Soc. 1952, 88—91.

Reuther, W., and Smith, P. F., Iron chlorosis in Florida citrus groves in relation to certain soil constituents. [caused by copper] Proc. Florida hortic. Soc. 65. 1952, 62—69, 7 fig.

Reuther, W., and Smith, P. F., Toxic effect of copper on growth of citrus seedlings and its possible relation to acid-soil chlorosis in Florida citrus groves. Citrus Mag. 14. 1952, nr. 11, p. 25—27.

Riehl, L. A., and Carman, G. E., Water spot of navel oranges. Calif. Citrogr. 37. 1952, 464, 484—485.

Rohrbaugh, P. W., Sour orange saves day as salt kills trifoliate roots. [citrus rootstocks] Texas Farming, Citric. 28. 1952, nr. 12, p. 6.

Samish, Z., and Cohen, A., The effect of frost on the composition of Shamouti oranges. Ktavim, Rec. agric. Res. Stat., Rehovot (Israel), 2—3. 1952, 27—30.

Schneider, H., Bud union problems of lemon trees on sour orange rootstock. Calif. Citrogr. 37. 1952, 208—212.

Schneider, H., The importance of bud unions in the development of lemon sieve-tube necrosis. Phytopathology 42. 1952, 18 (Abstr.).

Schneider, H., Necrosis of sieve tubes below the bud unions of lemon trees on sour-orange rootstocks. Phytopathology 42. 1952, 18 (Abstr.).

Schneider, H., and Witt, R. L., Sieve-tube necrosis. Citrus Leaves 32. 1952, nr. 9, p. 17—18, 35.

Schneider, H., and Witt, R. L., Sieve-tube necrosis in lemon strains. Calif. Citrogr. 37. 1952, 478—481.

Smith, P. F., and Specht, A. W., Heavy-metal nutrition in relation to iron chlorosis of citrus seedlings. Proc. Florida State hortic. Soc. 1952, 101—108.

Stewart, W. S., »Tying« oranges on the tree; the use of chemicals to reduce pre-harvest drop or orange, lemons, and grapefruit. Plants and Gard., New York, 8. 1952, 29—31.

Stewart, I., and Leonard, C. D., Iron chlorosis — its possible causes and control. Citrus Mag. 14. 1952, nr. 10, p. 22—25.

Stewart, I., and Leonard, C. D., Molybdenum deficiency in citrus. Proc. Florida State hortic. Soc. 64 (1951). 1952, 51—53.

Stewart, I., and Leonard, C. D., Molybdenum deficiency in Florida citrus. Nature, London, 170. 1952, 714—715, 1 fig.

Stewart, I., and Leonard, C. D., Possible causes and control of iron chlorosis. [citrus] Calif. Citrogr. 37. 1952, 427—445.

Stewart, W. S., Hield, H. Z., and Brannaman, B. L., Effects of 2, 4-D and related substances on fruit-drop, yield, size, and quality of Valencia oranges. Hilgardia, Berkeley, 21. 1952, 301—329.

Stewart, W. S., Riehl, L. A., and Erickson, L. C., Effects on citrus of 2, 4-D used as an amendment to oil sprays. J. econ. Ent. 45. 1952, 658—668, 2 fig.

Sturrock, D., Stem protection of young fruit trees from frost. [citrus] Proc. Florida State hortic. Soc. 64 (1951). 1952, 262—264.

Tumanow, I. I., (Physiology of the cold resistance of citrus plants.) Izv. Akad. Nauk USSR, Ser. Biol., 5. 1952, 56—84.

Turrell, F. M., and Chervenak, M., Overdosages harmful to trees; effect of zinc-sulfur spray on the chlorophyll, phaeophytin, and sulfur content of orange leaves. Citrus Leaves 32. 1952, nr. 7, p. 12—13, 18.

Turrell, F. M., Chervenak, M., and Vanselow, A. P., Inorganic composition of exudate from Eureka lemons treated with elemental sulfur dust. Amer. J. Bot. 39. 1952, 693—699, 1 fig.

Uehara, M., and Isozaki, Y., (Micrometeorological observation on the protection of Satsuma orange (Citrus unshiu Marc.) trees against cold. I.) Kagawa agric. Coll. Techn. Bull. 4. 1952, 56—60.

Verona, O., (Deficiency diseases in citrus plants.) Italia agric. 89. 1952, 738—743.

Wedding, R. T., Riehl, L. A., and Rhoads, W. A., Effect of petroleum oil spray on photosynthesis and respiration in citrus leaves. Plant Physiol., Lancaster, 27. 1952, 269—278.

Winston, J. R., and Meckstroth, G. A., Control of orange decays by pyrrolidine alone and mixed with 2-aminopyridine. Proc. Florida State hortic. Soc. 1952, 78—83.

Pflanzliche Feinde
Vegetal parasites — Parasites végétaux

Aleschina, O. A., (Effect of nitrogen nutrition on the development of the infectious drying up of lemons (mal secco).) [Deuterophoma tracheiphila] Sowjetsk. Agron., Moskwa, 10. 1952, nr. 6, p. 78—79.

Batchelor, L. D., and Bitters, W. P., High quality citrus rootstock. [resistant to Phytophthora spp.] Calif. Agric., Berkeley, 6. 1952, nr. 9, p. 3—4, 4 fig.

Ben Meir-Glueck, Y., Fungi isolated from the air of groves and packing sheds and from the skin of Shamouti oranges. Ktavim, Rec. agric. Res. Stat., Rehovot (Israel), 2—3. 1952, 35—37.

Calavan, E. C., Klotz, L. J., deWolfe, T. A., and Sufficool, J. R., Control of brown rot of lemon fruits by various fungicides. [Phytophthora citrophthora] Phytopathology 42. 1952, 512 (Abstr.).

Calavan, E. C., Klotz, L. J., deWolfe, T. A., and Sufficool, J. R., New sprays for control of brown rot of citrus. [Phytophthora spp.] Calif. Citrogr. 38. 1952, 77.

Calavan, E. C., and Sufficool, J. R., Renewing lemon trees. Calif. Citrogr. 38. 1952, 2—3, 14—17, fig.

Calavan, E. C., Wampler, E. L., Sufficool, J. R., and Ormsby, H. W., Control of blossom blight [Botrytis] of lemons. Calif. Citrogr. 37. 1952, 180, 190.

Calavan, E. C., Wampler, E. L., Sufficool, J. R., and Ormsby, H. W., Gray mold infections. [Botrytis cinerea] Citrus Leaves 32. 1952, nr. 4, p. 10—11.

Carrante, V., e Bóttari, V., Miglioramento genetico del limone e ricerca di varietà resistenti al »mal secco«. (Genetic improvement of the lemon tree and research on varieties resistant to »mal secco« disease.) [Deuterophoma tracheiphila] Ann. Sperim. agr., Roma, 6 (n. ser.). 1952, 323—346, 6 fig.

Cassidy, H. P., Effects of sulfur dusts. Citrus Leaves 32. 1952, nr. 4, p. 20.

Cassin, J., Expériences sur l'action fongicide de différents produits pour la lutte contre la moisissure des agrumes. [Penicillium digitatum, P. italicum] Fruits Primeurs Afr. Nord, Casablanca, 22. 1952, nr. 232, p. 18—20, 1 fig.

Chella, G., (Control of sooty mold of olives and citrus.) Ispettorato prov. Agric. Napoli Circ. 6. 1952, 5—7.

Chochrjakow, M. K., (Die Spezialisierung des Erregers des infektiösen Vertrocknens der Limonbäume (Deuterophoma tracheiphila Petri).) Mikrobiologija, Moskwa, 21. 1952, 210—218.

Chowdhury, S., Some observations on citrus canker in Assam. [Xanthomonas citri] Sci. and Cult., Calcutta, 18. 1952, 246—248, 1 fig.

De Carvalho, T., y Mendes, O., Uma cercosporiose em citrinos. (A cercosporiosis of citrus.) [Cercospora, Colletotrichum gloeosporioides] Moçambique (Docum. trim.) nr. 72. 1952, 8 p., 11 fig.

Fraser, L. R., A disease of seedling citrus. Austr. Plant Dis. Recorder 4. 1952, 18—19.

Halma, F. F., and Opitz, K. W., Foot rot (Phytophthora citrophthora) observations. Citrus Leaves 32. 1952, nr. 11, p. 18.

Halma, F. F., and Opitz, K. W., Observations on foot rot of orange in California. [Phytophthora citrophthora] Plant Dis. Reptr. 36. 1952, 413, 1 fig.

Klotz, L. J., Prevention of gummosis (Phytophthora) in planting citrus trees. Calif. Citrogr. 37. 1952, 300—301.

Klotz, L. J., Ravages of brown rot fungi. Citrus Leaves 32. 1952, nr. 6, p. 6—7.

Lauriol, F., La protection des agrumes contre les moisissures à Penicillium. Fruits d'outre mer, Paris, 7. 1952, 465—475, 14 fig.

Littauer, F., and Nadel-Schiffmann, M., Incubation period and development stages of citrus fruit mould. Ktavim, Rec. agric. Res. Stat., Rehovot (Israel), 2—3. 1952, 31—32.

Minz, G., and Ben-Meir, Y., Comparative pathogenicity of potential causal agents of stem-end rot in Shamouti oranges. Ktavim, Rec. agric. Res. Stat., Rehovot (Israel), 2—3. 1952, 39—40.

Moreau, C., et Moreau, M., Phomopsis citri Faw., mélanose des agrumes. Rev. Mycol., Paris, 17. 1952, Suppl. colon. 2, 6 p., 3 fig.

Morschel, J. R., Septoria spot of citrus. Austr. Plant Dis. Recorder 4. 1952, 19—20.

Nadel-Schiffmann, M., Une contribution à la pathogénie du Penicillium digitatum et du Penicillium italicum sur les fruits des agrumes. Fruits, Primeurs Afr. Nord, Casablanca, 22. 1952, nr. 238, p. 309—310.

Omura, R., (An observation on weeds growing under citrus trees.) Kyushu Noji Shikenjo 10. 1952, 173—174.

Orshanskaya, V. N., (Some results of a study of cultures of the fungus Deuterophoma tracheiphila Petri and some aspects of their application to the control of wilt disease of citrus — »mal secco«.) Bull. Acad. Sci. USSR 1952, nr. 1, p. 89—100, 16 fig.

Pasinetti, L., Sulle vere cause determinanti il »mal secco« degli agrumi e su nuovi orientamenti terapeutici. Ann. Fitopat. 1. 1952, 2—67.

Peña Durán, R., La melanosis en los frutales cítricos. Dominican Republ. Secr. Estado Agric., Pecuaria, Colon. Agric. 42. 1952, nr. 195, p. 26.

Petruschowa, N. I., and **Kudrjaschowa, L. S.,** (Control of black leg disease of citrus nursery seedlings.) [Rhizoctonia, Pythium, Fusarium] Sad i Ogorod (Orchard and Garden) 1952, nr. 4, p. 23—24, 1 fig.

Pupillo, M., Un marciume dei frutti di limone prodotto da una associazione di micromiceti. (A rot of lemons produced by an association of fungi.) Ann. Sperim. agr., Roma, 6 (n. ser.). 1952, 53—67, 12 fig.

Rossetti, V., and **Bitancourt, A. A.,** Thiamin and the growth substances for Phytophthora in the bark of citrus trees. Science, Lancaster, 115. 1952, 205—206, 1 fig.

Ruggieri, G., La profilassi e la lotta contro il »mal secco« degli agrumi. [Deuterophoma tracheiphila] Inform. Fitopat., Bologna, 2. 1952, Suppl. al nr. 5, p. 6—8, 1 fig.

Schneider, Y. I., (The application of oxychloride of copper to the control of bacterial necrosis of citrus.) [? Pseudomonas syringae] Sad i Ogorod (Orchard and Garden) nr. 3. 1952, 28.

Sharma, K., The Loranthus parasite as a pest on citrus trees in Assam. Indian J. Hortic. 9. 1952, nr. 2, p. 18—21.

Smith, W. P. C., Plant diseases. [brown rot of citrus, twig blight, and collar rot of citrus] J. Dept. Agric. West. Austr. (ser. 3) 1. 1952, 155, 157, 159—161.

Speroni, H. A., El cabito seco de los naranjos dulces. IDIA (Inform. Invest. agríc.), Buenos Aires, 5. 1952, nr. 58, p. 21 (Abstr.).

Speroni, H. A., Nota sobre una »gomosis« en el portainjerto de lima o mandarino Ragpur y en algunas de sus combinaciones. IDIA (Inform. Invest. agríc.), Buenos Aires, 5. 1952, nr. 58, p. 25—26.

Stepanow, K. M., and **Schalyschkina, W. I.,** (Fruits and seeds of lemons — sources of infectious drying up of lemons (mal secco).) [Deuterophoma tracheiphila] Mikrobiologiia, Moskwa, 21. 1952, nr. 1, p. 48—51.

Stepanow, K. M., und **Schumakowa, A. A.,** (Über die Perioden der Infektion der Zitronenkultur mit »Malsecco«.) Dokl. Vsesoiuzn. Akad. Sel'skohoz. Nauk im. V. I. Lenina (Proc. Lenin Acad. agric. Sci.) 18. 1952, H. 11, S. 34—38.

Suit, R. F., Comparison of copper fungicides for melanose control. Citrus Mag. 14. 1952, nr. 7, p. 24—26, 35.

Taboada, V. L. E., y **Domato, J.,** Comportamiento de los nuevos portainjertos cítricos con relación a la gomosis. (The behaviour of the new citrus rootstocks in relation to gummosis.) [Phytophthora] IDIA (Inform. Invest. agríc.), Buenos Aires, 5. 1952, nr. 58, p. 21.

Thullbery, H. A., Is a melanose spray extravangance? Citrus Mag. 14. 1952, nr. 6, p. 23.

Wager, V. A., The black spot disease of citrus in South Africa. [Phoma citricarpa] South Afr. Dept. Agric. Sci. Bull. nr. 303 (Bot., Plant Path. Ser. nr. 14). 1952, 52 p., 11 fig.

Wager, V. A., The scab disease of citrus. [Sphaceloma (Elsinoë) fawcetti] Farming South Afr. 27. 1952, 281, 288, 3 fig. — Citrus Grower 225. 1952, 3—4.

Wager, V. A., and **Ripley, L. B.,** Sooty mould in citrus. [Capnodium salicinum] Farming South Afr. 27. 1952, 468, 2 fig.

La **lutte contre le Penicillium** des agrumes. [Penicillium digitatum, P. italicum à citrus] Fruits, Primeurs Afr. Nord, Casablanca, 22. 1952, nr. 241, p. 460.

Tierische Feinde
Animal parasites — Parasites animaux

Atkins jr., E. L., Control of fruit tree leaf roller (Archips argyrospila) on citrus. Calif. Citrogr. 37. 1952, 233, 254.

Atkins jr., E. L., Fruit tree leaf roller [Archips argyrospila]. This year's infestation indicates need for next year's spring treatment against fast-spreading citrus pest. Calif. Agric., Berkeley, 6. 1952, nr. 6, p. 5, 15.

Atkins jr., E. L., Leaf roller (Archips argyrospila) control. Citrus Leaves 32. 1952, nr. 3, p. 8—9, 34—35.

Baines, R. C., and **Clarke, O. F.,** Citrus-root nematode. Calif. Agric., Berkeley, 6. 1952, 9, 13.

Baines, R. C., and **Clarke, O. F.,** Some effects of the citrus-root nematode on the growth of orange and lemon trees. Phytopathology 42. 1952, 1 (Abstr.).

Baker, A. C., The vapor-heat process. US Dept. Agric. Yearb. Agric. 1952, 401—404.

Carman, G. E., Gunther, F. A., Blinn, R. C., and **Garmus, R. D.,** The physical fate of parathion applied to citrus. J. econ. Ent. 45. 1952, 767—777, 4 fig.

Clausen, C. P., Biological control of insect pests. Calif. Citrogr. 37. 1952, 182, 204—206.

Clausen, C. P., Controlling insects biologically. Citrus Leaves 32. 1952, nr. 3, p. 6—7, 32—33.

Couranjou, A., La poussière [Parlatoria], cette ennemie des orangers. Fruits, Primeurs Afr. Nord, Casablanca, 22. 1952, 307—308.

Da Fonseca, J. C., (Aspects of the entomology of citrus in the Spanish Levant.) Agros, Lisboa, 35. 1952, 45—60.

Da Fonseca, J. C., (Some aspects of entomology in the citrus orchards of the Spanish Levant.) Agros, Lisboa, 35. 1952, 304—320.

Da Fonseca, J. C., (Some aspects of the entomology of citrus orchards in the eastern part of Spain.) Agros, Lisboa, 35. 1952, 125—143.

Dean, H. A., Spider mites of citrus and Texas citrus mite control in the Lower Rio Grande Valley of Texas. J. econ. Ent. 45. 1952, 1051—1056.

DeBach, P., Biological control of red scale in San Diego County. Calif. Citrogr. 37. 1952, 136—137, 158.

DeBach, P., California red scale [Aonidiella aurantii]. Study of prospects for biological control of pest in orange and lemon groves of San Diego County. Calif. Agric., Berkeley, 6. 1952, nr. 3, p. 8, 12.

DeBach, P., Citricola scale (Coccus pseudomagnoliarum) parasites. Calif. Citrogr. 34. 1949, 168.

DeBach, P., Pest problem nears solution. [Aonidiella aurantii] Citrus Leaves 32. 1952, nr. 2, p. 9—11, 39.

DeBach, P., and **Erickson, L.,** Rooted lemon fruits for citrus pest studies. J. econ. Ent. 45. 1952, 1097—1098, 1 fig.

Del Rivero, J. M., Las hormigas como enemigos de los cítricos y su destrucción con los modernos insecticidas. Siembra, Madrid, 8. 1952, nr. 4, p. 30—33.

Di Martino, E., Anomalie di sviluppo su piante di Citrus determinate da un eriofide. (Abnormalities of development in citrus plants caused by a mite.) Ann. Sperim. agr., Roma, 6 (n. ser.). 1952, 241—248, 4 fig., 3 tab.

Düzgüneş, P. Z., Türkiye'de Turunçgil Akarları. (Citrus mites in Turkey.) Bitki Koruma Bült. (Bull. Plant Prot.), Ankara, 1952, nr. 1, p. 6—10.

Elmer, H. S., Ewart, W. H., and **Carman, G. E.,** Soft brown scale on citrus, abnormal increase of scale population in groves treated with parathion investigated in survey. Calif. Agric., Berkeley, 6. 1952, 10, 13.

Ewart, W. H., and **Elmer, H. S.,** Dieldrin for thrips. Control of citrus thrips is possible but further studies are needed. Calif. Agric., Berkeley, 6. 1952, nr. 9, 1 p. (Agric. Bull. (Shell) ADB. 113. 1952, 1 p.)

Ewart, W. H., and **Elmer, H. S.,** To control citrus thrips dieldrin tests show promise. Fruit, Veg. Rev. 14. 1952, nr. 9, p. 22.

Ewart, W. H., and **Elmer, H. S.,** Use of dieldrin for the control of citrus thrips. Agric. Bull. (Shell) ADB. 167. 1952, 4 p. (Univ. Calif. News Letter nr. 56).

Ewart, W. H., Gunther, F. A., Barkley, J. H., and **Elmer, H. S.,** Control of citrus thrips with dieldrin. J. econ. Ent. 45. 1952, 578—593, 1 fig.

Féron, M., Observation sur le parasitisme de Ceratitis capitata Wied. dans le sous Marocain. Rev. Path. vég., Ent. agric. France 31. 1952, 99—102, 2 fig.

Fisher, F. E., Diseases of scale insects. Citrus Mag. 15. 1952, 25—26.

Flanders, St. E., Another parasite of purple scale established in California. [Phycus sp. on Lepidosaphes beckii] Calif. Citrogr. 37. 1952, 234, 256—257.

Flanders, St. E., New purple scale parasite, a second natural enemy of citrus pest established in California may be effective in low host infestations. [Physcus sp.] Calif. Agric., Berkeley, 6. 1952, nr. 5, p. 10, 14.

Fleschner, Ch. A., Dustywings on citrus in California. [Parasemidalis, Conwentzia, Coniopteryx, Malacomyza on citrus mites] Calif. Citrogr. 37. 1952, 296, 298. — Citrus Leaves 32. 1952, nr. 5, p. 20.

Fleschner, Ch. A., Dustywings [Parasemidalis flaviceps] on citrus; these natural enemies of mites and scales may be helped by miticides but are killed by insecticides. Calif. Agric., Berkeley, 6. 1952, nr. 7.

Fleschner, Ch. A., Host-plant resistance as a factor influencing population density of citrus red mites on orchard trees. J. econ. Ent. 45. 1952, 687—695, 6 fig.

Fleschner, Ch. A., New citrus red mite enemies from the Orient. [Stethorus spp. and unindentified staphylinid beetle against Paratetranychus citri] Calif. Citrogr. 37. 1952, 159.

Fleschner, Ch. A., and **Akakawa, K. Y.,** The mite Tydeus californicus on citrus and avocado leaves. J. econ. Ent. 45. 1952, 1092, 1 fig.

Fukuda, J., Studies on the resistance of citrus varieties to the arrowhead scale, Prontaspis yanonensis Kuwana. I. On the resistance of Natsudaidai, Citrus natsudaidai Hayata, and Citrus junos. Bull. hortic. Div. Tôkai-Kinki agric. Exp. Stat. 1952, nr. 1, p. 128—141.

Gallo, D. (Coccidae on citrus.) Rev. Agric., Piracicaba, 27. 1952, 293—300.

Garzia, A., (Scale insects on oranges.) Frutticolt. camp. (Italia) 2. 1952, nr. 6, p. 2.

Georghiu, G. P., The citrus rust mite (Phyllocoptruta oleivora). Countryman, Nicosia, 6. 1952, nr. 4/5, p. 12—16.

Gerhardt, P. D., Ant control in citrus groves; Argentine ant [Iridomyrmex humilis] controlled for about six months by thorough spring application of chlordane spray. Calif. Agric., Berkeley, 6. 1952, 13.

Gerhardt, P. D., and **Lindgren, D. L.,** Dictyospermum scale in California. J. econ. Ent. 45. 1952, 874—877.

Gómez Clemente, F., Estado actual de la lucha biológica contra algunas cochinillas de los agrios. (Pseudococcus citri y Pericerya purchasi.) Bol. Pat. veg., Ent. agríc., Madrid, 19. 1951—52, 19—35, 13 fig.

Gómez Clemente, F., Insectos y ácaros parásitos de los »Citrus« en las comarcas españolas del Mediterráneo. Bol. Pat. veg., Ent. agríc., Madrid, 19. 1951—52, 197—220, 29 fig.

Gómez Clemente, F., Un tisanóptero causante de daños en las naranjas de algunas zonas de Levante. Bol. Pat. veg., Ent. agríc., Madrid, 19. 1951—52, 135—146, 9 fig.

Greenberg, A., (Citrus mites and their control.) Hassadeh, Tel-Aviv, 32. 1952, 433—434.

Griffiths, J. T., Some biological notes on Katydids in Florida citrus groves. Florida Entomologist 35. 1952, 134—138.

Griffiths, J. T., and Thompson, W. L., Grasshoppers in citrus groves. Florida agric. Exp. Stat. Bull. 496. 1952, 26 p.

Guicherd, P. P., La mouche noire des aurantiacées au Mexique. [Aleurocanthus woglumi] Fruits d'outre mer, Paris, 7. 1952, 371—379.

Hepburn, G. A., and Bishop, H. J., Control of false codling moth [Argyroploce leucotreta] by means of insecticidal sprays. Citrus Grower, Port Elisabeth, 217. 1952, 7—9.

Hoidale, P. A., The Mexican fruit fly. US Dept. Agric. Yearb. Agric. 1952, 559—562.

Jeppson, L. R., Climate and citrus mites. Calif. Citrogr. 37. 1952, 277, 298—299.

Jeppson, L. R., Field studies with new acaricides to control citrus bud mite. J. econ. Ent. 45. 1952, 271—273.

Jeppson, L. R., and Carman, G. E., Mites on citrus; two chemicals show exceptional control possibilities in tests. [p-chlorophenyl-p-chlorobenzene sulfonate and aramite] Calif. Agric., Berkeley, 6. 1952, nr. 9, p. 14.

Jeppson, L. R., Jesser, M. J., and Complin, J. O., Timing red mite (Metatetranychus citri) treatments in coastal areas. Calif. Citrogr. 38. 1952, 36, 38—39.

Jeppson, L. R., Jesser, M. J., and Complin, J. O., Tree trunk application as a possible method of using systemic insecticides on citrus. J. econ. Ent. 45. 1952, 669—671.

Johnston, C. J. R., Red Cliffs tests: entomologist's report on treatments employed in red scale [Aonidiella aurantii] control campaign. (Abridged.) Citrus News, Melbourne, 27. 1952, 171.

Juarez Montegrifo, F., Defensa de la naranja temprana contra la »mosca«. [Ceratitis capitata] Bol. Cám. Ofic. agríc., Murcia (España), 111. 1952, 3—4.

Kloft, W., Schildlausbekämpfung in den USA. [an Citrus] Umschau 52. 1952, 371—372, 3 Abb.

Lewis, H. C., et al., Brevipalpus mite on citrus in California and Arizona. Calif. Citrogr. 37. 1952, 146—148, fig.

Lewis, H. C., La Follette, J. R., and Ewart, W. H., Further spread of citricola scale [Coccus pseudomagnoliarum]. Calif. Citrogr. 37. 1952, 218—219.

Lindgren, D. L., and Sinclair, W. B., Safeguard perfected; fumigation of citrus fruits and avocados against oriental fruit fly (Dacus dorsalis) infestation. Citrus Leaves 32. 1952, 18—20.

Manefield, T., White wax scale [Ceroplastes destructor] on citrus. Queensland agric. J. 75. 1952, 348—349.

Martin, H., Observations et essais de lutte contre Ceratitis capitata en Provence, 1951. Rev. Path. vég., Ent. agric. France 31. 1952, 52.

Mathias, A. F., A program for the prevention of damage by purple mite. [Metatetranychus citri] Citrus Mag. 15. 1952, nr. 3, p. 21.

Mathias, A. F., Systematic inspection of groves. [insect pests] Citrus Mag. 14. 1952, nr. 7, p. 23.

Mellini, E., La mosca delle frutta (Ceratitis capitata Wied.). Inform. Fitopat., Bologna, 2. 1952, Suppl. al nr. 5, p. 4—5, 1 fig.

Mitrofanow, P. I., (Trials of thiophos on citrus.) [Pseudococcus sp.] Sad i Ogorod (Orchard and Garden) 1952, nr. 9, 35—37.

Norman, P. A., and Spencer, H., Experiments in 1951 on control of the citrus red mite (Paratetranychus citri). Florida Entomologist 35. 1952, 19—21.

Norris, R. E., Tree snails in citrus pest control. Florida Grower 60. 1952, 18, 41, 47.

Perret, J.-E., et Lespes, L., Essai sur l'effet désinsectisant du conditionnement moderne des agrumes. Terre maroc. 26. 1952, 179—182.

Petitjean, R., Aperçu sur le développement de quelques cochenilles parasites des agrumes au Maroc. [Lepidosaphes beckii, L. gloverii, Chrysomphalus dictyospermi, Parlatoria ziziphi] Terre maroc. 26. 1952, 130—131.

Planes García, S., La »arañuela roja«, nueva plaga de los naranjos en el Levante español. Bol. Pat. veg., Ent. agríc., Madrid, 19. 1951—52, 189—196, 5 fig.

Pratt, R. M., Forecasting citrus insect infestations. Florida Grower 60. 1952, nr. 11, p. 21.

Riehl, L. A., and LaDue, J. P., Evaluation of petroleum fractions against California red scale [Aonidiella aurantii] and citrus red mite [Metatetranychus citri]. Advances Chem. Ser. 7. 1952, 25—36.

Sleeth, B., The citrus-root nematode in the Rio Grande Valley. Proc. Rio Grande Valley hortic. Inst. 6. 1952, 35—37.

Smirnoff, W. A., Aperçu sur le développement de quelques cochenilles parasites des agrumes au Maroc. Fruits, Primeurs Afr. Nord, Casablanca, 22. 1952, 47—51; 107—110, 5 fig.

Smirnoff, W. A., Observations sur les ennemis naturels des cochenilles des agrumes au Maroc. Fruits, Primeurs Afr. Nord, Casablanca, 22. 1952, 89—93.

Sparks, H., Money down the hole. [gopher control] Calif. Citrogr. 38. 1952, 6, 20, 22.

Spencer, H., and **Norman, P. A.,** Increases in citrus red mite infestations after the application of parathion sprays. Florida Entomologist 35. 1952, nr. 3.

Spencer, H., Osburn, M. R., and **Norman, P. A.,** Control of the purple scale [Lepidosaphes beckii] on citrus with parathion. US Dept. Agric. Circ. nr. 896. 1952, 10 p. — Citrus Ind. 33. 1952, nr. 8, p. 16—18.

Spiller, D., Truncated lognormal distribution of red scale (Aonidiella aurantii Mask.) on citrus leaves. New Zealand J. Sci., Technol. (B) 33. 1952, 483—487.

Stofberg, F., Dieldrin for the control of ants (Pheidole spp. and Iridomyrmex sp.) and scale insects (Coccus hesperidum) on citrus trees. Agric. Bull. (Shell) ADB. 189. 1952, 1 p.

Tanaka, M., and **Hayashida, M.,** (Studies on the factors occurring periodical outbreaks of citrus red mites (Paratetranychus [i. e. Metatetranychus] citri).) Kyushu Noji Shikenjo 9. 1952, 29—30.

Tapia, E., Los »trips« que dañan los citrus en el la Argentina. IDIA (Inform. Invest. agríc.), Buenos Aires, 5. 1952, nr. 58, p. 20.

Thompson, R. K., and **Whipp, A. A.,** New chemicals for control of citrus red mite Paratetranychus citri (McG.). Proc. Florida State hortic. Soc. 64 (1951). 1952, 35—39.

Thompson, W. L., Griffiths, J. T., and **Sites, J. W.,** A comparison of oil emulsion and parathion for the control of scale insects on citrus. Citrus Mag. 14. 1952, nr. 9, p. 24—27.

Tofiño Orejuela, T. E., Efecto residual del DDT asociado a las emulsiones de aceite para el control de 3 especies de Diaspididae (Homoptera-Coccoidea). (Residual effect of DDT in oil emulsions in the control of 3 species of Diaspididae.) [Citrus] Acta agron. (Colombia) 2. 1952, 161—162.

Vergani, A. R., Control de la cochinilla roja australiana. [Aonidiella aurantii] IDIA (Inform. Invest. agríc.), Buenos Aires, 5. 1952, nr. 58, p. 20.

Wason, E. J., Attacking red scale; preparing ground and trees to increase spraying and fumigation effectiveness. Citrus News, Melbourne, 28. 1952, 9.

Wene, G. P., The citrus fulgorid. [Oremsis pruinosa] Proc. 4th Ann. Rio Grande Valley hortic. Inst. 1950, 90—93, fig.

Whitehead, G. B., Some notes on the insect ecology of citrus and the use of insecticides. Plant Prot. Overseas Rev., London. 3. 1952, nr. 2, p. 16—20.

Woglum, R. S., Smith, H. S., and **Clausen, C. P.,** The citrus blackfly (Aleurovanthus woglumi) in northwest Mexico. Calif. Citrogr. 37. 1952, 356.

Wolfenbarger, D. O., Some notes on the citrus root weevil. [Pachnaeus litus] Florida Entomologist 35. 1952, 139—142.

Yust, H. R., Visible reactions of California red scale in relation to resistance to fumigation with HCN. J. econ. Ent. 45. 1952, 985—987.

Yust, H. R., and **Shelden, F. F.,** A study of the physiology of resistance to hydrocyanic acid in the California red scale. [Aonidiella aurantii] Ann. ent. Soc. Amer. 45. 1952, 220—228.

Cuarentena interior num. 9 contra la mosca prieta [Aleurocanthus woglumi] de los citrus. Fitófilo, San Jacinto (México), 6. 1952, nr. 4, p. 22—34.

Virus

Batchelor, L. D., and **Calavan, E. C.,** What's the matter with lemon trees? [resistance against decline disease] Citrus Leaves 32. 1952, nr. 1, p. 6—9, 42.

Bazán de Segura, C., La »tristeza« de los cítricos en el Peru. (»Tristeza« on citrus in Peru.) Cent. Invest. agríc., Lima, Inform. 77. 1952, 14 p., 4 fig. — Mensajero agríc. (Peru) 78. 1952, 6—8.

Bitters, W. P., Exocortis disease of citrus; top-root relationships of trifoliate orange and its hybrids studies in search for cause of root disease. Calif. Agric., Berkeley, 6. 1952, nr. 11, p. 5—6.

Bitters, W. P., Exocortis on trifoliate. Citrus Leaves 32. 1952, nr. 9, p. 14—16, 34.

Bitters, W. P., Stem pitting in California citrus trees as a result of quick decline. Citrus Leaves 32. 1952, nr. 10, p. 12—13, 26.

Bitters, W. P., Stem pitting in citrus trees. Calif. Citrogr. 38. 1952, nr. 1, p. 3, 26, 4 fig.

Bitters, W. P., and **Parker, E. R.,** Quick decline studies. Calif. Agric., Berkeley, 6. 1952, nr. 3, p. 7, 15.

Bitters, W. P., and **Parker, E. R.,** Quick decline studies; rootstock investigations test various top-root combinations in search of tolerant citrus varieties. Calif. Agric., Berkeley, 6. 1952, nr. 4, p. 10—11, 16, 6 fig.

Chapot, H., Le »quick decline« existe en Floride et peut-être aussi à Madagascar. Fruits d'outre mer, Paris, 7. 1952, 476—477.

Childs, J. F. L., Cachexia, a bud-transmitting disease and the manifestation of phloem symptoms in certain varieties of citrus relatives and hybrids. Citrus Ind. 33. 1952, 5, 8—9, 21. — Proc. Florida State hortic. Soc. 64 (1951). 1952, 47—51.

Childs, J. F. L., Cachexia disease, its bud transmission and relation to xyloporosis and to tristeza. Phytopathology 42. 1952, 265—268, 1 fig.

Costa, A. S., Grant, T. J., and **Moreira, S.,** Bud-take of healthy and tristeza-infected citrus buds. Phytopathology 42. 1952, 280—281.

DuCharme, E. P., Xyloporosis of citrus. Citrus Mag. 14. 1952, nr. 5, p. 25—27.

DuCharme, E. P., and **Knorr, L. C.,** The scientific aspects of tristeza. Citrus Mag. 14. 1952, nr. 8, p. 29—31.

Ford, H. W., The effect of spreading decline on the root distribution of citrus. Proc. Florida State hortic. Soc. 65. 1952, 47—50.

Fraser, L., Seedling yellows — an unreported virus disease of citrus. Agric. Gaz. New South Wales 63. 1952, 125—131, 5 fig.

Fraser, L., Virus disease in citrus. Queensland Fruit, Veg. News (Austr.) 2. 1952, nr. 44, p. 28—29.

Fraser, L. R., Indicators for psorosis virus of citrus. Austr. Plant. Dis. Recorder 4. 1952, 17.

Fraser, L. R., Xyloporosis possibly present in New South Wales. [on citrus] Austr. Plant Dis. Recorder 4. 1952, 17—18.

Giacometti, D. C., and **Storey, W. B.,** Citrus quick decline discovered in Hawaii. Calif. Citrogr. 37. 1952, 357.

Grant, T. J., Evidence of tristeza, or quick decline, virus in Florida. Proc. Florida State hortic. Soc. 1952, 28—31.

Grant, T. J., Costa, A. S., and **Moreira, S.,** Variations in stem pitting on tristeza-inoculated plants of different citrus groups. Proc. Florida State hortic. Soc. 64 (1951). 1952, 42—47.

Knorr, L. C., y **Benatena, H. N.,** Xyloporosis en mandarino común de Concordia. IDIA (Inform. Invest. agríc.), Buenos Aires, 5. 1952, nr. 57, p. 19—20.

Knorr, L. C., and **DuCharme, E. P.,** Recognizing tristeza. Citrus Mag. 14. 1952, nr. 12, p. 23—26.

Lemaistre, J., La tristeza des agrumes. Fruits 7. 1952, 534—536.

Pasquier, La psorose, maladie des agrumes; rapport de mission effectuée en Algérie du 15 au 20 mai 1952. Feuille Inform. Vitic., Arboric. Tunisie 29. 1952, 17—21.

Reichert, I., Xyloporosis in citrus. 13th int. hortic. Congr., London, Mimeogr. Pap. 1952, 6.

Steyaert, R. L., La tristeza des agrumes. [virus] Fruits d'outre mer, Paris, 7. 1952, 534—536, 4 fig.

Steyaert, R. L., et **van Laere, R.,** La »cannelure« ou »stem pitting« du pamplemoussier au Congo Belge. Bull. agric. Congo Belge 43. 1952, 447—454, fig.

Stout, G. L., and **McClain, R. L.,** Quick decline of citrus. Bull. Dept. Agric. Calif. 41. 1952, nr. 2, p. 58—60, 4 tab. col.

Stubbs, L. L., Virus diseases of citrus in Victoria. 1. A virus disease of mandarin on rough lemon (Citrus limon (Linn.) Burmann) rootstock. J. Dept. Agric. Victoria 50. 1952, 124—128, 8 fig.

Waibel, C., The effect of psorosis on the survival of red grapefruit trees after the 1950—51 freeze in the Lower Rio Grande Valley of Texas. Proc. Rio Grande Valley hortic. Inst. 6. 1952, 25—28.

Wallace, J. M., Don't forget psorosis. Calif. Citrogr. 37. 1952, 319, 330—331.

Yamada, S., and **Sawamura, K.,** Studies on the dwarf disease of Satsuma orange, Citrus unshiu Marcovitch. (Preliminary report.) Bull. hortic. Div. Tôkai-Kinki agric. Exp. Stat. 1952, nr. 1, p. 61—71.

Yoshii, H., and **Omori, N.,** (A virus disease of Unshiu orange.) J. Plant Prot., Tokyo, 33. 1952, 118—119.

Citrus field day at Mildura. J. Dept. Agric. Victoria 50. 1952, nr. 1, p. 9—14, 5 fig.

Tremendous losses from citrus tree declines. Citrus Leaves 32. 1952, nr. 5, p. 32.

Carya, Castanea, Corylus, Juglans, Prunus amygdalus

Akdoğan, S., Kestanelerde mürekkep hastalïgï Phytophthora cambivora (Petri) Buis. (Tintenkrankheit bei Kastanien.) Tomurcuk, Istanbul, 1952, nr. 2, p. 6—7.

Aldo, P., (The chestnut crisis on an international plane.) [Endothia parasitica] Ric. sci. (Italia) 22. 1952, 202—209.

Ark, P. A., The Myrtleford Jewel walnut; an Australian variety escaping blight. Diamond Walnut News 34. 1952, nr. 2, p. 3.

Ark, P. A., and **Scott, C. E.,** Walnut blight in retrospect. Diamond Walnut News 34. 1952, nr. 2, p. 14.

Baldacci, E., and **Orsenigo, M.,** Chestnut blight in Italy. [Pytophthora cinnamomi] Phytopathology 42. 1952, 38—39, 1 fig., 1 tab. geogr.

Bartlett, B. R., and **Ortega, J. C.,** Relation between natural enemies and DDT-induced increases in frosted scale and other pests of walnuts. J. econ. Ent. 45. 1952, 783—785.

Bellis, G. H., Chestnut blight; a disease that cut a trail of death from Maine to Georgia. Natural Hist., New York, 61. 1952, 359.

Biraghi, A., Caratteri di resistenza in Castanea sativa nei confronti di Endothia parasitica. (Characters of resistance of Castanea sativa to Endothia parasitica.) Boll. Staz. Pat. veg., Roma, 8 (ser. 3) (1950). 1952, 167—171, 2 fig.

Biraghi, A., Il disseccamento fogliare del castagno causato da »Sphaerella maculiformis«. (Wilting of chestnut leaves caused by Sphaerella maculiformis.) Boll. Staz. Pat. veg., Roma, 8 (ser. 3) (1950). 1952, 157—160, 1 fig.

Biraghi, A., Fatti nuovi per la lotta contro il cancro della corteccia del castagno. (New factors in the control of bark canker of chestnut.) [Endothia parasitica] Humus, Milano, 1952, nr. 1, 2 p., 3 fig.

Biraghi, A., (New factors in control of chestnut blight.) [Endothia parasitica] Humus, Milano, 8. 1952, nr. 1, p. 13—14.

Biraghi, A., New possibilities in control of chestnut bark blight (Endothia parasitica). Monti e Boschi, Firenze, 3. 1952, 157—159.

Busnel, M.-C., et **Busnel, R.-G.,** Le chauffage par rayonnement infra-rouge dans la désinsectisation des châtaignes. Trans. IX th int. Congr. Ent., Amsterdam, 1 (1951). 1952, 855—860, 4 fig.

Camp, W. H., Chestnut of to-morrow. [a new hybrid, immune to blight, a timber tree, with good quality nuts] Horticulture (nat. ed.) 30. 1952, 360, 364.

Chandlee, W. B., Filbert worm [Melissopus latiferreanus] control. Proc. Oregon State hortic Soc. 67. 1952, 153.

Chandler, S. C., Life history and control of the pecan spittlebug. North. Nut Growers Assoc. Rept. 43rd Ann. Meetg. 1952, 106—111.

Chandler, S. C., Life history and control of pecan spittlebug in Illinois. J. econ. Ent. 45. 1952, 890.

Clapper, R. B., Relative blight resistance of some chestnut species and hybrids. [Endothia parasitica] J. Forestry 50. 1952, 453—455.

Darpoux, H., et **Ridé, M.,** Recherche de procédés de désinfection des châtaignes contre l'Endothia parasitica (Murril) Anderson. Phytiatrie-Phytopharmacie 1952, nr. 1, p. 17—20.

Del R. Stefano, M., (Chestnut bark canker in the province of Massa and Carrara.) [Endothia parasitica] Boll. Econ. Cam. Com. Ind., Agr. Massa, Carrara (Italia) 6. 1952, 21—24.

Dengler, H. W., Evaluate Asiatic chestnuts for blight resistance. Amer. Nurseryman, Rochester, 96. 1952, nr. 8, p. 10, 77.

De Rosa, M., (The chestnut »worm«.) [Balaninus elephas and its control] Giorn. agric., Roma, 62. 1952, 222.

Every, R. W., Filbert worm [Melissopus latiferreanus] control. Proc. Oregon State hortic. Soc. 67. 1952, 153.

Fischer, E., Maßnahmen gegen das Kastaniensterben im Tessin. (Bericht pro 1951.) Schweiz. Ztschr. Forstwesen 1952, Nr. 3, S. 103—106, 2 Abb.

Gerhardt, P. D., Lindgren, D. L., and **Sinclair, W. B.,** Fumigation of walnuts; southern California packing house tests show control of navel orange worm (Myelois venipars) and Mediterranean flour moth (Ephestia kühniella) larvae. Calif. Agric., Berkeley, 6. 1952, nr. 7, p. 5, 14.

Graser, H. L., A progress report on mistletoe control in walnuts. West. Fruit Grower, San Francisco, 6. 1952, nr. 2, p. 23—24.

Gravatt, G. F., Blight on chestnut and oaks in Europe in 1951. Plant Dis. Reptr. 36. 1952, 111—115, 3 fig.

Gravatt, G. F., Diseases of the chestnut and poplar in Europe. Org. europ. econ. Co-operat., Paris 1952. 26 p.

Gravatt, G. F., La enfermedad del chancro cortical en los castanares [Castanea] y robledales [Quercus] de Europa en 1951. Montes, Madrid, 8. 1952, 323—328.

Graves, A. H., and **Nienstaedt, H.,** Chestnut breeding. Report for 1951—1952. North. Nut Growers Assoc. Rept. 43rd Ann. Meetg. 1952, 120—130.

Grente, J., Le Phytophthora cinnamomi parasite du châtaignier en France. Compt. rend. Acad. Sci., Paris, 234. 1952, 2226—2228.

Grente, J., et **Solignat, G.,** La maladie de l'encre du châtaignier et son évolution. [Phytophthora] Compt. rend. Acad. Agric. France 38. 1952, 126—129.

Hase, A., Schäden an Walnüssen durch Krähen. Anz. Schädl.kunde 25. 1952, 75—76, 1 Abb.

Hoffman, R. M., Box elder bug (Leptocoris trivittatus) causes damage to almonds. West. Fruit Grower, San Francisco, 6. 1952, nr. 9, p. 10.

Ii, M., (On chestnut gall wasp (Dryocosmos).) J. Plant Prot., Tokyo, 21. 1952, 12—27.

Krstić, M., Konferencija šumarskih stručnjaka po pitanju raka kestenove kore u Sloveniji. (Forestry experts conference on the problem of chestnut bark canker in Slovenia.) [Endothia parasitica] Saschtita Bilja (Plant Prot.), Beograd, nr. 9. 1952, 107—108.

Large, J. R., and **Phillips, A. M.,** Suggested Florida pecan spray schedule. Florida Grower 60. 1952, nr. 5, p. 16.

Martin, D. F., Insecticidal control of the pecan nut casebearer (Acrobasis caryae). Iowa State Coll. J. Sci. 26. 1952, 244—245.

Michelbacher, A. E., and Bacon, O. G., Codling moth on walnut. Calif. Agric., Berkeley, 6. 1952, nr. 2, p. 5, 14, fig.

Michelbacher, A. E., and Bacon, O. G., Spider mites on walnuts; continued experiments in northern California groves indicate insect control program to keep mites in check. Calif. Agric., Berkeley, 6. 1952, nr. 6, p. 4, 15.

Michelbacher, A. E., and Bacon, O. G., Walnut insect and spider-mite control in northern California. J. econ. Ent. 45. 1952, 1020—1027, 1 fig.

Michelbacher, A. E., Bacon, O. G., and Wade, W., Walnut aphid investigations; 1951 tests on Payne walnuts help develop economical control program under northern California conditions. Calif. Agric., Berkeley, 6. 1952, nr. 4, p. 6, 12.

Michelbacher, A. E., and Middlekauff, W. W., Fungus on codling moth. [Carpocapsa (Cydia) pomonella in walnut] Calif. Agric., Berkeley, 6. 1952, nr. 3, p. 13, 1 fig.

Miller, P. W., Filbert blight [Xanthomonas corylina] and its control. Proc. Oregon State hortic. Soc. 67. 1952, 148—151.

Miller, P. W., Nut diseases in Oregon in 1951. Plant Dis. Reptr. 36. 1952, 142.

Nickels, C. B., Control of the pecan weevil in Texas. J. econ. Ent. 45. 1952, 1099—1100.

Nickels, C. B., Experiments in the control of the pecan weevil in Texas. Proc. 31st Meetg. Texas Pecan Growers' Assoc. 1952, 60—62.

Ortega, J. C., The husk fly [Rhagoletis completa] Diamond Walnut News 34. 1952, nr. 4, p. 16—17.

Pericart, G., et Pericart, J., Un coléoptère Curculionidae nouveau pour la faune continentale française: Anthonomus amygdali Hust. Entomologiste, Paris, 8. 1952, 91—92.

Phillips, A. M., Cole, J. R., and Large, J. R., Insects and diseases of the pecan in Florida. Florida agric. exp. Stat. Bull. 499. 1952, 75 p.

Pupillo, M., (Walnut mold [Marssonia juglandis].) Inform. Fitopat., Bologna, 2. 1952, 36—37.

Pupillo, M., e Canova, A., Contributo alla conoscenza del »mal dello stacco« dei noccioli in Sicilia. (Contribution to the knowledge of the »mal dello stacco« of hazelnut trees in Sicily.) Ann. Sperim. agr., Roma, 6 (n. ser.). 1952, 895—906, 7 fig., 1 tab. col.

Rjadnowa, I. M., (On the cold resistance of large filberts.) Agrobiologiia, Moskwa, 1. 1952, 153—155.

Rosa, M., Una moria dei noccioli del Viterbese. Nota preliminare. (Dieback of filberts in Viterbo.) Boll. Staz. Pat. veg., Roma, 8 (ser. 3) (1950). 1952, 249—254, 4 fig.

Schad, C., et al., Le problème du châtaignier en France. [Phytophthora cinnamomi, P. cambivora] Jardins France, Paris, 6. 1952, 223.

Schad, C., Solignat, G., Grente, J., et Venot, P., Recherches sur le châtaignier à la Station de Brive. Ann. Amélior. Plantes, Paris, 2. 1952, 369—458, 26 fig.

Schtschepotjew, F. L., (Developing types of walnuts resistant to late frosts in spring.) Lesn. Khoz. (USSR) 6. 1952, 69—70.

Serr, E. F., Zinc deficiency increasing. Diamond Walnut News 34. 1952, nr. 4, p. 12—14.

Serr, E. F., and Forde, H. I., Sprays for control of preharvest drop of Peerless almonds. Proc. amer. Soc. hortic. Sci. 60. 1952, 193—196.

Summers, F. M., New materials in early sprays for control of brown almond mites. J. econ. Ent. 45. 1952, 974—981.

Summers, F. M., and Baker, G. A., A procedure for determining relative densities of brown almond mite (Bryobia praetiosa) populations on almond trees. Hilgardia, Berkeley, 21. 1952, 369—382.

Summers, F. M., and Holmberg, D. M., Davis men discuss problem of controlling mites on almonds. Almond Facts, San Francisco, 17. 1952, nr. 6, p. 15.

Van Leeuwen, E. R., Fumigation of chestnuts with methyl bromide to control weevils. J. econ. Ent. 45. 1952, 1088—1089.

Van Leeuwen, E. R., Life history and habits of the chestnut weevils. J. econ. Ent. 45. 1952, 1089—1091.

Volz, A. G., Control and prevention of crown rot; keeping crowns dry only effective method. Diamond Walnut News 34. 1952, 8—9.

Wilson, E. E., The branch wilt (Hendersonula toruloidea) problem, a progress report on the nature and control of this disease. Diamond Walnut News 34. 1952, nr. 4, p. 4—6.

Wilson, E. E., Development of bud failure in the Jordanolo variety of almond. Phytopathology 42. 1952, 520 (Abstr.).

Wood, M. N., Cause of almond kernel spot. [Euschistus conspersus] Almond Facts, San Francisco, 17. 1952, nr. 2, p. 4, 9.

Diseases of the chestnut and poplar in Europe. Part I. Blight of chestnut and three European oaks. Part II. The danger of spreading diseases on poplar cuttings. Org. Europ. econ. Co-op. (OEEC), Paris 1952. 26 fig.

Maladies du châtaignier et du peuplier en Europe. OECE (Org. europ. Coop. econ.), Paris 1952. 31 p.

Maßnahmen gegen das Kastaniensterben im Tessin. Bericht pro 1951. Schweiz. Ztschr. Forstwesen 103. 1952, 103—106, fig.

h. Ficus

DeToledo, A. A., Notas sôbre o contrôle da broca da figueira, Azochis gripusalis. (Notes on the control of the fig borer, Azochis gripusalis.) Biológico, São Paulo, 18. 1952, 167—169.

English, H., Phomopsis canker of figs. [Phomopsis cinerescens] Phytopathology 42. 1952, 513 (Abstr.).

Grandi, G., Catalogo ragionato delle Agaonine di tutto il mondo descritte fino ad oggi. [Ficus] Boll. Ist. Ent. Univ. Bologna 19. 1952, 69—96.

Grandi, G., Insetti dei fichi messicani, malesi ed australiani. Boll. Ist. Ent. Univ. Bologna 19. 1952, 47—67, 13 fig.

Grandi, G., Insetti dei fichi senegalesi. Boll. Ist. Ent. Univ. Bologna 19. 1952, 31—46, 9 fig.

Manaresi, A., (Can honey bees damage figs?) Riv. Fruttic., Ravenna, 14. 1952, 1—6.

Peregontschenko, B. M., (News in the control of the fig pyralid.) Sad i Ogorod (Orchard and Garden) 1. 1952, 51—52.

Perišić, M., (Contribution to the study of fig mosaic virus on the Montenegrin coast.) (Yearb. Fac. Agric.), Beograd, nr. 4. 1952, 229—234, 1 tab.

Perišić, M., (La mosaïque du figuier en Yougoslavie.) Saschtita Bilja (Plant Prot.), Beograd, nr. 9. 1952, 62—63.

Silvestri, F., (Ceroplastes (or scale) of the fig.) Fruttic. camp. (Italia) 2. 1952, nr. 9, p. 3; nr. 10, p. 2.

Le figuier dans le Sud-Ouest de Madagascar. [ennemis] Compt. rend. Rech. agron. Madagascar 1952, nr. 1, p. 75—81, 3 fig.

7. Weinrebe
Grape-vine — Vigne

a. Allgemeiner Teil
General part — Partie générale

Audibert, Les incertitudes des ans. Vitic. nouv. (France) 5. 1952, nr. 53, p. 17—18.

Bernardi, G., (The influence of overhead irrigation on the development of animal and vegetable parasites of grapes.) [diseases and insect pests] Campagnolo 1952, Spec. nr., p. 45—47.

Brichet, J., Le desséchement des feuilles de vigne. [avec note par P. Frezal] Rev. agric. Afr. Nord 50. 1952, 133—134.

Cairaschi, E. A., Protection du vignoble d'Alsace; compte rendu d'essais de poudrages par avion effectuées en 1951. Agriculture, Paris, 16. 1952, 113—116.

Gallay, R., et **Staehelin, M.,** Un jaunissement des vignes qui n'a rien de commun avec la chlorose calcaire. Rev. rom. Agric., Vitic., Arboric. 8. 1952, 49—51.

Götz, B., Das Rebenwachstum nach einer Bodenbehandlung mit Gamma-Präparaten. Weinbau/Wiss. Beih. 6. 1952, 87—94, 4 Abb.

Hewitt, W. B., Transmission of the factor causing »white Emperor« through different grape stocks. Phytopathology 42. 1952, 514 (Abstr.).

Jancke, O., Rebschädlinge und -krankheiten im Jahre 1951. Dtsch. Weinbau 7. 1952, 201—202.

Jancke, O., Richtige Prognosen ersparten dem Weinbau der Pfalz Millionenbeträge! Gesunde Pflanzen 4. 1952, 274—277, 1 Abb.

Jancke, O., Wie steht es um die Schädlingsbekämpfung? Dtsch. Weinbau 7. 1952, 435—436.

Jenny, J., Eine Umfrage über stationäre Spritzanlagen für Rebberge. Schweiz. Ztschr. Obst-, Weinbau 61. 1952, 295—298, 1 Abb.

Kondo, I. N., (So called »boiling off« of grape buds in Uzbekistan.) [discussion of cause of wilting] Winod. i Winograd. USSR (Weinbereitung u. Weinbau) 12. 1952, nr. 9, p. 39—40.

Lacombe, R., Les traitements du vignoble. Motoris. agric., Paris, 7. 1952, 225—227.

Linsenmaier, Ist heuer eine Winterspritzung der Weinberge notwendig? Württ. Wochenbl. Landw. 119. 1952, 315.

Linsenmaier, Der Rebschutzdienst gibt bekannt. Württ. Wochenbl. Landw. 119. 1952, 409, 426, 451, 473, 498, 521—522, 538, 560, 582, 611—612, 638, 661—662.

Meinke, Rebschutzdienst Nordbaden. Aufruf Nr. 1—8. Bad. landw. Wochenbl. 119. 1952, 206, 246, 341, 359, 401, 413, 501, 571.

Niemeyer, L., Prüfung und Wirkungsweise von Rebschutzmitteln. Rhein. Weinztg. 1952, 80—83.

Panic, Z., (Aerial spraying of vineyards on the estate »Sanja Marinkovic« in 1951.) Vojvodanski Poljoprivrednik (Jugoslavija) 8. 1952, nr. 11, p. 15—17.

Rodrian und **Hasselbach,** Fortschritte in der Spritztechnik. Weinbau 7. 1952, Nr. 3, S. 52—54.

Rouart, S., Remarques sur certains accidents survenus au vignoble de l'Algérois et le desséchement du feuillage. Bull. Soc. Agriculteurs Algérie 96. 1951/1952, 17—24.

Sarrabay, J., Le desséchement des feuilles de vigne. Rev. agric. Afr. Nord 49. 1952, 892—894.

Schellenberg, A., Von den Kosten der Spritzmittel im Weinbau. Schweiz. Ztschr. Obst-, Weinbau 61. 1952, 136.

Serženko, S. S., (Viticulture in the new 5-year plan.) Sad i Ogorod (Orchard and Garden) 1952, nr. 11, p. 29—31.

Stellwaag, F., Abbauerscheinungen in Schnittgärten. Dtsch. Weinbau 7. 1952, H. 16.

Swartwout, H. G., Recent development in spraying grapes. Kansas State hortic. Soc. Bienn. Rept. 51. 1952, 106—111.

Swartwout, H. G., Thomas, G. W., and **Martin jr., W. R.,** Spraying grapes. [spray schedule] Missouri agric. Coll. Ext. Circ. 614. 1952, 4 p.

Trappmann, W., Netzmittel oder Haftmittel? Dtsch. Weinbau 7. 1952, 304.

Vidal, J. P., Sur quelques dépérissements. Rev. agric. Afr. Nord 50. 1952, 466—468.

Weiss, J., Warum Mißerfolge in der Schädlingsbekämpfung? Weinbau 7. 1952, 78.

Wilhelm, Weg mit den Hauptrebfeinden! Bauern-Ztg. 5. 1952, Nr. 22, S. 7—8.

Zacharowa, E. I., (The effect of lightning on the vine.) Winod. i Winograd. SSSR (Weinbereitung und Weinbau) 11. 1952, 35—36, fig.

Zillig, H., 30 Jahre Institut für Weinbau der Biologischen Bundesanstalt. Geschichtlicher Rückblick. Rhein. Weinztg. 1/2. 1951, 1—4, 1 Abb.

Zillig, H., 50 Jahre Rebschädlingsbekämpfung. Rückschau und Ausblick. Rhein. Weinztg. 1952, 73—76.

Guide pour les traitements de la vigne. Rev. rom. Agric., Vitic., Arboric. 8. 1952, 97—99.

Spraying recommendations for grapes. New Jersey agric. Coll. Ext. Spray Calendar 53. 1952, 4 p.

b. Nichtparasitäre Krankheiten
Diseases not caused by parasites
Maladies non parasitaires

Chino, T., Ono, T., Suzuki, K., and **Sugimura, J.,** (Effects of boron on the »Ebi« disease of grape vines. I.) J. hortic. Assoc. Japan 21. 1952, 87—92.

Ciferri, R., Magnesio-carenza di viti Nebiolo nell' Albese. (Magnesium deficiency of Nebiolo vines in the Alba region.) Not. Mal. Piante nr. 21. 1952, 36—39.

Coombe, B. G., Grape yields increased by zinc swabbing. J. Dept. Agric. South Austr. 55. 1952, 456—457.

De Mas Solanes, R., Clorosis de la viña. Vinos, Viñas, Frutas, Buenos Aires, 46. 1952, 509—510.

Doerell, E. G., Behandlung der Chlorose des Weinstockes. Landwirtschaft, Wien, Nr. 11/14. 1952, 191—192.

Fabricatore, J. A., Azione del freddo su foglie di vite. (Action of cold on grape-vine leaves.) Boll. Staz. Pat. veg., Roma, 8 (ser. 3) (1950). 1952, 99—105, 5 fig.

Henner, J., Rebschäden im Zusammenhang mit hormonaler Unkrautbekämpfung. Pflanzenarzt, Wien, 5. 1952, Nr. 8, S. 3—5, 3 Abb.

Hewitt, W. B., Some responses of grape-vines to sodium arsenite spray applied for black measles control. Phytopathology 42. 1952, 158—161, 2 fig.

Kaufhold, W., 2, 4 D-Schäden im Weinbau. Weinbau 7. 1952, 111.

Kronebach jr., A., Die Auswirkungen von 2, 4 D-Mitteln auf die Weinrebe im Rheingau 1951. Gesunde Pflanzen 4. 1952, 141—142.

Leontjewa, I. A., and **Gerasimow, B. S.,** (Application of herbicide 2, 4-D to grape-vines.) Winod. i Winograd. SSSR (Weinbereitung u. Weinbau) 11. 1952, 37—40.

Levadoux, L., Comportement de la vigne en hiver. Voix Colons, Alger, 34. 1952, nr. 1647, p. 3.

Lott, W. L., Magnesium deficiency in muscadine grape vines. Proc. amer. Soc. hortic. Sci. 60. 1952, 123—131, 5 fig.

Luque, J. A., El mal »cuaje« en la vid. Chacra, Buenos Aires, 23. 1952, nr. 264, p. 36—37.

Lusis, E., Beschädigungen der Reben durch wuchsstoffhaltige Unkrautbekämpfungsmittel. Weinbau/Wiss. Beih. 6. 1952, 61—62.

Masten, V., (Tuberculosis of vines — pseudo fungus disease of vines.) Sadjarstvo, Vinarstvo in Vrtnarstvo (Jogoslavia) 4. 1952, 142—146.

Moser, L., Die Behandlung der Chlorose des Weinstockes. Landwirtschaft, Wien, 1952, 14—17.

Müllner, L., Schädigung der Reben durch Dicopur. Landwirtschaft, Wien, Nr. 15/16. 1952, 229.

Nagy, J., Frostbekämpfung im Weinbau durch künstliche Beregnung. Schweiz. Ztschr. Obst-, Weinbau 61. 1952, 85—91, 5 Abb.

Orsat, J. O., Chlorose calcaire de la vigne. Rev. agric. Afr. Nord 50. 1952, 904—905.

Osterwalder, A., Von der Weißfäule der Trauben (Coître). [Hagelwunden] Schweiz. Ztschr. Obst-, Weinbau 61. 1952, 414—416.

Pupillo, M., »Melanosi fisiologica« della vite. (Physiological melanosis« of the vine.) Ann. Sperim. agr., Roma, 6 (n. ser.). 1952, 785—791, 5 fig.

Roščin, I. L., (New methods of spring frost control.) Winod. i Winograd. USSR (Weinbereitung und Weinbau) 1952, nr. 3, p. 47.

Roussel, C., Observations sur les dégâts par la foudre sur la vigne en 1951. Phytoma, Paris, 5. 1952, nr. 37, p. 20, 1 fig.

Sarrabay, J., La vigne et les désherbants sélectifs hormonés. Rev. agric. Afr. Nord 50. 1952, 483.

Sartori, G. A., Ampelopatia da fitormoni. [Schäden an Reben durch Herbizide] Riv. Vitic., Conegliano, 5. 1952, 319—326.

Sartorius, O., Kiefer, M., und **Hannemann, R.,** Das Rieseln der Pfropfreben. Weinbau/Wiss. Beih. 6. 1952, 21—29, 38—43.

Schellenberg, A., Warum schützt der Frostschirm aus Stroh die grünen Rebteile? Schweiz. Ztschr. Obst-, Weinbau 61. 1952, 4—6, 1 Abb.

Scott, L. E., and **Scott, D. H.,** Further observations on the response of grape-vines to soil and spray applications of magnesium sulphate. Proc. amer. Soc. hortic. Sci. 60. 1952, 117—122.

Smith, W. P. C., Hormone weedicide injury to grape-vines. Austr. Plant Dis. Recorder 4. 1952, 21. — J. Dept. Agric. West. Austr. (ser. 3) 1. 1952, 502—503.

Sugiyama, T., Iwata, M., and **Yashiro, H.,** (Magnesium deficiency in grapes.) J. hortic. Assoc. Japan 21. 1952, 161—164.

Thate, R., Über Versuche, mit Hilfe von Wuchsstoffen das Durchrieseln der Rebblüten zu verhindern. Weinbau/Wiss. Beih. 6. 1952, 57—60, 5 Abb.

Wartanjan, M. D., (Frost resistance in vines depends on changes in biochemical composition.) Winod. i Winograd. USSR (Weinbereitung und Weinbau) 11. 1952, 43—46.

Weger, N., Weinernten und Sonnenflecken. Ber. dtsch. Wetterd. US-Zone Nr. 38. 1952, 229—237.

Weise, R., Mikroklimatische Geländestudien an der Laubverfärbung der Reben im Herbst 1951 und ihre Folgerungen für den fränkischen Weinbau. Ber. dtsch. Wetterd. US-Zone Nr. 38. 1952, 237—240, 1 Abb.

Wilhelm, A. F., Bormangel bei der Weinrebe Vitis vinifera L. Krankheitsbild, Verbreitung und Versuche zur Behebung von Bormangel in Weinbergen. Phytopath. Ztschr. 19. 1952, 129—159, 21 Abb.

Spätfröste. Schweiz. Ztschr. Obst-, Weinbau 61. 1952, 263—264.

c. Pflanzliche Feinde
Vegetal parasites — Parasites végétaux

Akdoğan, M., Bağlarda mildiyö hastalığına karşı muhtelif ilâçlarla mücadele denemeleri. (Bekämpfungsversuche mit verschiedenen Präparaten gegen den Falschen Mehltau der Reben.) Tomurcuk, Istanbul, 1952, nr. 10, p. 15.

Aldebert, P., Orsat, C., and **Pourcharesse, P.,** Essais de produits de traitement du mildiou de la vigne. Rev. agric. Afr. Nord 50. 1952, 508—511, 520—524.

Altmann, H., Kommt es bei der Peronospora-Bekämpfung nur auf das Erraten an? Landwirtschaft, Wien, 1952, Nr. 11/14, S. 193—194.

Baldacci, E., (Peronospora of grapes.) Romagna agric., zootecn., Ravenna, 37. 1952, nr. 8, p. 1, 6—7.

Bleton, C., Le mildiou de la vigne en Chaouia en 1952. Bull. Chambre Agric. Casablanca 23. 1952, nr. 255, p. 3—5. — Rev. agric. Afr. Nord 50. 1952, 639—642.

Blumer, S., Nochmals die Kupferspritzungen im Weinbau. Schweiz. Ztsch. Obst-, Weinbau 61. 1952, 212.

Blumer, S., Die Spritzungen gegen den Falschen Mehltau (Peronospora) im Weinbau. Schweiz. Ztschr. Obst-, Weinbau 61. 1952, 185—186.

Blumer, S., und **Kundert, J.,** Die Peronospora der Rebe und ihre Bekämpfung im Jahre 1951, 1952. Schweiz. Ztschr. Obst-, Weinbau 61. 1952, 57—63, 3 Abb.; 526—529, 1 Abb.; 533—536.

Borzini, G., (Powdery mildew of grapes.) Inform. Fitopat., Bologna, 2. 1952, 65—72.

Braun, A. J., Control of black rot and downy mildew of grapes with concentrate sprays, dry dusts, and wet dusts. Phytopathology 42. 1952, 3 (Abstr.).

Cerutti, V., (Economy in the control of downy mildew of grapes.) Nuova Agric. milan. (Italia) 3. 1952, nr. 11, p. 2.

Courtice, N., The eradication of downy mildew in the Bundaberg area. Queensland Bur. Sugar Exp. Stats. Cane Growers' Quart. Bull. 56. 1952, 22—24.

Delitala, A., (Rot of grape twigs caused by Sclerotinia.) Inform. Fitopat., Bologna, 2. 1952, 87—88.

De Sousa, J. S. I., (Maranhão grapes attacked by Peronospora.) Chacaras e Quintaes, São Paulo, 86. 1952, 94—96.

Di Caro, S., (The perithecia of powdery mildew of grapes.) Inform. Fitopat., Bologna, 2. 1952, 78—79.

Du Plessis, S. J., Vine nurseries. [Erwinia vitivora] Farming South Afr. 27. 1952, 378, 390.

Gabotto, L., Per la lotta antiperonosporica. (Control of downy mildew.) Coltiv., Giorn. vinic. ital., Casale Monferrato, 98 (n. ser.). 1952, 181—182.

Gaudineau, M., Messiaen, C. M., Lafon, R., et **Simone, J.,** Mildiou de la vigne: efficacité des produits de lutte en 1951. [Plasmopara viticola] Compt. rend. Acad. Agric. France 39. 1952, 441—442.

Graniti, A., Prove di lotta contro la Peronospora della vite in Sardegna nell'anno 1952. Not. Mal. Piante nr. 24—25 (n. ser. 3—4). 1952, 75—85, 1 fig.

Hafiz, A., Powdery mildew of grape vines. Punjab Fruit J. 15. 1952, nr. 52, p. 8—9.

Heller, E., Schwefel und Kupfer im Weinbau. Dtsch. Weinbau 7. 1952, 230—231.

Henner, J., Mißerfolge bei der Peronospora- und Oidiumbekämpfung 1951 und ihre Ursachen. Pflanzenarzt, Wien, 5. 1952, Nr. 2, S. 1—2.

Hyams, E., A note on some hybrid grape-vines. [resistant to Uncinula necator and Plasmopara viticola] Fruit Yearb., London, 6. 1952, 95—99.

Kublitzkaja, M. A., (Fusariose of the grape-vines.) In: Vsesoĭuznyĭ Nauchno-Issledovatel'skiĭ Institut Vinodeliîa i Vinogradarstva, Magarach, Voprosy mikrobiologii (Moskva 1952), p. 156—167.

Kuščak, L. I., (Aeroplane treatment of vineyards with copper chlorate preparations.) Winod. i Winograd. SSSR (Weinbereitung und Weinbau) 7. 1952, nr. 7, p. 43—45.

Lafon, J., Compte rendu d'essais contre le mildiou en 1951. Agriculteur charent. (France) 6. 1952, nr. 20, p. 2.

Lafon, J., Essais de produits organiques pour la lutte contre le mildiou. Vrai Cognac (France) 49. 1952, 562.

Lafon, M., Le traitement du mildiou de la vigne sans cuivre. Progr. agric., vitic., Montpellier, 137. 1952, 285—287. — Compt. rend. Acad. Agric. France 38. 1952, 148—151.

Lee, A. E., Nitrogen and amino acids in normal, habituated, and bacteria-free crown gall tumor tissue cultures of grape. Plant Physiol., Lancaster, 27. 1952, 173—178.

Liguori, A., Prevent Peronospora in grapes. Giorn. agric., Roma, 62. 1952, 111.

Llobregat, E., Tratamientos para combatir el mildeu. II. [in grapes] Vinos, Viñas, Frutas, Buenos Aires, 46. 1952, 516—517.

Magnani, G., Ciccarone, A., e Sibilia, C., Seconda relazione su prove di lotta antiperonosporica con prodotti organici. (Second progress report on the control of grape downy mildew with organic fungicides.) Boll. Staz. Pat. veg., Roma, 8 (ser. 3) (1950). 1952, 245—248.

Meierhans et Keller, C., Résultats d'un essai comparatif de lutte contre le mildiou »Plasmopara viticola«. J. Agric. suisse 74. 1952, nr. 16, p. 1.

Miège, E., Nouveautés dans la lutte contre les mildious. Inform. maroc. nr. 590. 1952, 1, 4.

Miège, E., L'oidium. Inform. maroc. nr. 592. 1952, 1, 3.

Mir, R. M., El oidium y su tratamiento. Cultivador mod., Barcelona, 35. 1952, 126—127.

Neuner, J., Praktische Peronospora-Beobachtung. Landwirtschaft, Wien, 1952, Nr. 9/10, S. 155—156.

Nikolaew, P. I., (The influence of minimum temperatures and humidity among the leaves of vine on the development of mildew.) Winod. i Winograd. SSSR (Weinbereitung und Weinbau) 6. 1952, 44—46.

Panjan, M., i Lušin, V., Ispitivanje natrijevog thiosulfata kao sredtva za zamjenu sumpora kod suzbijanja Oidiuma. (Natrium-thiosulfat als Ersatz für Schwefel zur Bekämpfung des Rebenmehltaues.) [Oidium] Saschtita Bilja (Plant Prot.), Beograd, nr. 10. 1952, 42—48, 3 fig.

Picco, D., Anticrittogamici a basso tenore di rame ed acuprici nella lotta contro la Peronospora della vite (Plasmopara viticola Berk. e Curt.). (Low-cupric and acupric fungicides in the control of downy mildew of vine.) Not. Mal. Piante nr. 21. 1952, 39—47.

Pieri, G., Nuovi anticrittogamici sperimentati nel 1951. (New fungicides tested in 1951.) [Uncinula necator, Plasmopara viticola] Ann. Sperim. agr., Roma, n. ser. 6. 1952, 1027—1042.

Pieri, G., Sull'uso del calendario d'incubazione della Peronospora della vite nella provincia di Treviso. (On the use of the calendar of incubation of the vine downy mildew in the province of Treviso.) Ann. Sperim. agr., Roma, 6 (n. ser.). 1952, 1577—1586, 2 fig.

Pirovano, A., Condizioni di sviluppo della Peronospora. (Bedingungen zur Entwicklung der Peronospora.) Riv. Vitic., Conegliano, 5. 1952, 79—81.

Pourcharesse, P., Résistance au mildiou des HPD. [grape hybrids] Rev. agric. Afr. Nord 50. 1952, 561.

Prešern, T., (Black rot of grapes in Vipavski vine -yards.) Sadjarstvo,Vinarstvo in Vrtnarstvo (Yugoslavia) 4. 1952, 146—147.

Purdy jr., L. H., and Hewitt, W. B., Infection experiments with the fungus causing the sooty blotch disease of Vitis californica Benth. Phytopathology 42. 1952, 518 (Abstr.).

Reckendorfer, P., Spritzkalk oder Speckkalk? [Peronospora] Pflanzenarzt, Wien, 5. 1952, Nr. 12, S. 2—3.

Riveros, J. E., Merma en la producción de uva. Chacra, Buenos Aires, 22. 1952, nr. 255, p. 33.

Roseau, H., Essais de lutte contre l'oidium en 1950 et 1951. Rev. agric. Afr. Nord 50. 1952, 280—285, 299—301.

Serženko, S. S., and Meschalowa, A. D., (Testing preparations-substitutes for Bordeaux mixture (in mildew control on grapes).) Winod. i Winograd. SSSR (Weinbereitung und Weinbau) 12. 1952, 51—52.

Stahl, M., Zwei wichtige Pilzkrankheiten der Weinrebe und deren Bekämpfung. [Plasmopara viticola, Uncinula necator] Kosmos 48. 1952, 177—179.

Stellwaag, F., Neue Erkenntnisse in der Oidiumbekämpfung. Dtsch. Weinbaukalender 1952 (J. Rimmler, Freiburg/Zähringen), 75—77.

Taylor, R. H., Fusicoccum viticolum on vines. Austr. Plant Dis. Recorder 4. 1952, 35.

Tihowidowa, W. K., (The control of dodder in vineyards.) Winod. i Winograd. USSR (Weinbereitung und Weinbau) 1952, nr. 2, p. 46—47.

Voight, S., Que sabe usted del oido. Selecc. rur. (Uruguay) 7. 1952, nr. 29, p. 33—34.

Werderewskij, D. D., and Makruschina, A. T., (Dinitrorodanbenzene.) [substitute for Bordeaux mixture in control of mildew] Winod. i Winograd. SSSR (Weinbereitung und Weinbau) 11. 1952, 47—48.

Wilhelm, A. F., Methoden zur Prüfung von Pflanzenschutz- und Vorratsschutzmitteln. XLVII. Methoden zur Prüfung von Mitteln gegen die Traubenfäule (Botrytis cinerea). Nachr.bl. dtsch. Pfl.schutzd., Braunschweig, 4. 1952, 67—71.

Wilhelm, A. F., Stand der Botrytisbekämpfung im Weinbau. Weinbau/Wiss. Beih. 6. 1952, 122—132, 158—173.

Zubow, M. F., (Copper chloride.) [substitute for Bordeaux mixture in control of mildew and white rot] Winod. i Winograd. SSSR (Weinbereitung und Weinbau) 11. 1952, 49—51.

Zubow, M. F., (Use of organic sulfur compounds against white rot of grapes.) Winod. i Winograd. SSSR (Weinbereitung und Weinbau) 12. 1952, nr. 5, p. 40.

TMTD. [Thiuram — Elsinoë ampelina] Austr. Dried Fruits News 27. 1952, nr. 1, p. 19.

d. Tierische Feinde
Animal parasites — Parasites animaux

Allen, M. W., Nematode parasites of trees and vines. West. Fruit Grower, San Francisco, 6. 1952, nr. 2, p. 33—37.

Allen, M. W., Root-knot and root-lesion nematodes; soil fumigation reduces infestations but can not be used in growing orchards or vineyards. Calif. Agric., Berkeley, 6. 1952, nr. 5, p. 8—9, 14.

Baker, K. H., Three agencies battle spread of grape-leaf skeletonizer. [Harrisina brillians] West. Fruit Grower, San Francisco, 6. 1952, nr. 11, p. 6.

Becker, H., Beobachtungen an Blattrebläusen in Baden während des Sommers 1951. Weinbau/Wiss. Beih. 6. 1952, 17—20.

Becker, H., Untersuchungen über Rassenmerkmale bei Fundatrigenien der Reblaus (Phylloxera vitifolii Fitch). Ztschr. Pfl.krankh. 59. 1952, 198—209, 5 Abb.

Berger, G., Altise de la vigne [Haltica lythri ampelophaga]; sur la possibilité de destruction des œufs. Terre maroc. 26. 1952, 445—446.

Böhm, O., Der »falsche Kohlerdfloh« (Haltica oleracea L.) als Schädling an Wein. Pflanzenschutzberichte, Wien, 9. 1952, 153—154.

Bondarovič, M. J., (Agrotis c-nigrum — a killer of vine buds.) Winod. i Winograd. SSSR (Weinbereitung und Weinbau) 10. 1952, 47—48.

Branas, J., Algunos de los problemas planteados por la invasion de la Filoxera en el viñedo frances. Mundo agríc., Barcelona, 5. 1952, nr. 44, p. 59—61.

Breider, H., Beiträge zur Morphologie und Biologie der Reblaus Dactylosphaera vitifolii Shim. Ztschr. angew. Ent. 33. 1952, 517—543, 21 Abb.

Brunner, E., Erfahrungen mit Schwefelkohlenstoff in Reben-Neuanlagen. Bauernzeitung, Freiburg i. Br., 5. 1952, Nr. 40, S. 6.

Christ, E. G., Grape tomato gall. [Lasioptera vitis] New York State hortic. Soc. hortic. News 30. 1949, 2192.

Cosmo, I., Indagini sulla lotta contro la cocciniglia cotonosa della vite. Ann. Sperim. agr., Roma, 6 (n. ser.). 1952, 169.

Cottier, W., Harrison, R. A., and **Jacks, H.,** Control of the grapehouse mealybug (Pseudococcus maritimus Ehr.). New Zealand J. Sci., Technol. (A) 34. 1952, 266—276, 1 fig.

Coupin, A., Le vignoble et les cicadelles [Chlorita flavescens] en 1952. Feuille Inform. Vitic., Arboric. Tunisie 30. 1952, 2—9.

Cox, J. A., A comparative study of organic insecticides for control of grape berry moth. J. econ. Ent. 45. 1952, 101—104.

Dalmasso, G., (The antiphylloxera congress in Mendoza.) Coltiv., Giorn. vinic. ital., Casale Monferrato, 98 (n. ser.). 1952, 177—180.

Delhaye, R., Quelques considerations sur l'azobenzene en serres à vignes. [Tetranychus telarius] Meded. Landbouwhoogesch., Opzoek.stat. Gent 17. 1952, 116—118.

Dürkes, Reblausbekämpfung und -verseuchung in Rheinhessen. Dtsch. Weinbau, Mainz, 7. 1952, 263—264.

Egorow, P. I., (Methyl bromide as a means to control Phylloxera.) Winod. i Winograd. SSSR (Weinbereitung und Weinbau) 12. 1952, nr. 7, p. 46.

Faber, W., Engerlingsbekämpfung in Rebschulen und Rebgarten-Neuanlagen. Pflanzenarzt, Wien, 5. 1952, Nr. 3, S. 1—2.

Forte, P. N., The control of mealy bug on vines in Western Australia. J. Dept. Agric. West. Austr. (ser. 3) 1. 1952, 561, 565—569.

Frick, K. E., The value of some organic phosphate insecticides in control of grape mealybug. J. econ. Ent. 45. 1952, 340—341.

Gärtel, W., Starkes Auftreten der Rebblattgallmilbe (Eriophyes vitis) im deutschen Weinbau. Rhein. Weinztg. 1/2. 1951, 17—19, 3 Abb.

Geier, P., et **Savary, A.,** Expériences récentes dans la lutte contre les vers de la grappe (eudémis et cochylis). [Clysia ambiguella, Polychrosis botrana] Rev. rom. Agric., Vitic., Arboric. 8. 1952, 25—26, 1 fig.

Götz, Gegen Engerlinge (Melolontha) und Drahtwürmer (Gordius aquaticus) in den Reben! Bauernzeitung, Freiburg i. Br., 5. 1952, Nr. 14, S. 6.

Götz, B., Achtet auf die »Rote Spinne« (Paratetranychus pilosus) im Weinbau. Bauernzeitung, Freiburg i. Br., 5. 1952, Nr. 17, S. 9.

Götz, B., Die Bekämpfung der Gallicolen von Phylloxera vitifolii Fitch. Ztschr. Pfl.krankh. 59. 1952, 189—198, 4 Abb.

Goguadze, M. N., (Thiophosphate — a new spray against grape leaf roller.) [Tortrix sp.] Winod. i Winograd. SSSR (Weinbereitung und Weinbau) 1952, nr. 2, p. 45—46.

Hammerschlag, W., Auftreten und Bekämpfung des Dickmaulrüßlers an der Untermosel. Rhein. Bauernztg. 6. 1952, 1067.

Hering, M., Wird die »Rote Spinne« im deutschen Weinbau wirtschaftliche Bedeutung erlangen? Rhein. Weinztg. 1952, 15—17.

Jancke, O., Milben an Reben. [Phyllocoptes vitis, Epitrimerus vitis, Eriophyes vitis, Paratetranychus pilosus] Gesunde Pflanzen 4. 1952, 97—101, 1 Abb.

Jancke, O., Ein neues Verfahren zur Desinfektion von bewurzelten Jungreben. [Reblaus] Weinbau/Wiss. Beih. 6. 1952, 177—183, 2 Abb.

Kaufhold, Der Rapsglanzkäfer (Meligethes aeneus F.) an der Rebenblüte. Pflanzenschutz, München, 4. 1952, 8, 1 Abb.

Landwehr, Zusammenarbeit zwischen Staat und Berufsstand beim planmäßigen Wiederaufbau reblausverseuchter Weinberge. Dtsch. Weinbau, Mainz, 7. 1952, 573—575.

Laurent, J., Traitements concentrés dans les vergers de l'Okanagan. [insecte contrôle] Rev. hortic., Paris, 124. 1952, 748—751.

Magistretti, G., El bisulfuro de carbono emulsionable en el control de la filoxera de la vid. IDIA (Inform. Invest. agríc.), Buenos Aires, 5. 1952, nr. 53, p. 33.

Manzoni, G., e **Carli, E.,** Prove di lotta invernale ed estiva contro la cocciniglia cotonosa della vite. (Tests of the winter and summer control of the mealy bug Pseudococcus citri on the grape-vine. Ann. Sperim. agr., Roma, 6 (n. ser.). 1952, 171—192, 5 fig.

Manzoni, L., (Diseases of grapes: erinose.) [Eriophyes vitis] Italia agric. 89. 1952, 533—432.

Martin, R., L'organisation de la défense contre les vers de la grappe. Tarn-et-Garonne agric. (France) 15. 1952, 86—87.

Menzel, R., Zur Bekämpfung des Sauerwurms. Schweiz. Ztschr. Obst-, Weinbau 61. 1952, 276.

Mir, R. M., El gusano de la uva. [Clysia ambiguella, Polychrosis botrana] Cultivador mod., Barcelona, 32. 1949, 171—172.

Morozova, G. S., (Agricultural technique to be used in growing seedlings of Phylloxera-resistant wild plants.) Winod. i Winograd. SSSR (Weinbereitung und Weinbau) 2. 1952, 52—55.

Perez-Salas y Lamo de Espinosa, J., Divulgaciones sobre insectos del vinedo. Semana vitiviníc. (España) 7. 1952, nr. 291, p. 2—3; nr. 292, p. 2—3; nr. 294, p. 2—3.

Petrosian, F. G., (Experiments with new anti-Phylloxera preparations.) [dichlorethane and dichlorides] Winod. i Winograd. SSSR (Weinbereitung und Weinbau) 12. 1952, nr. 8, p. 39—41.

Pieri, G., Relazione sui trattamenti insetticidi polverulenti contro la cocciniglia cotonosa della vite, effettuati nel 1950. (Trials with insecticidal dusts against the mealy bug Pseudococcus citri made in 1950.) Ann. Sperim. agr., Roma, 6 (n. ser.). 1952, 193—196.

Princ, J. I., (Growing vines on their own roots in regions attacked by Phylloxera.) Winod. i Winograd. SSSR (Weinbereitung und Weinbau) nr. 6. 1952, 41—44.

Rosella, E., Combattez en hiver, les cochenilles qui provoquent la fumagine de la vigne. Réveil Agric. (France) 61. 1952, 33.

Ruiz Castro, A., Altica o cuquillo de la vid (Haltica ampelophaga, Guér.). Minist. Agric., Serv. Capac., Propag. (España), Hojas Divulg. 5—52. 1952, 12 p. — Vinos, Viñas, Frutas, Buenos Aires, 48. 1952, 121—124.

Shepard, P. H., and **Rook, G.,** Grape spray schedule and description of grape pests. Missouri agric. Exp. Stat. Circ. 33. 1952, 11 p.

Snyder, E., Variedades de vides resistentes a la filoxera y la anguilulosis. [Heterodera] Mundo agríc., Barcelona, 4. 1952, nr. 40, p. 86—87.

Steinhaus, E. A., and **Hughes, K. M.,** A granulosis of the western grape leaf skeletonizer. [Harissina brillians] J. econ. Ent. 45. 1952, 744—745.

Stellwaag, F., Versuch zur Abtötung der Reblaus unter Erhaltung des Stockes 1951/52. Weinblatt, Neustadt-Hdt. (Beil. Weinbau u. Kellerwirtsch.) Nr. 33/34. 1952, 639—644. — Weinblatt 46. 1952, 33—34.

Sterling, C., Ontogeny of the Phylloxera gall of grape leaf. Amer. J. Bot. 39. 1952, 6—15, 38 fig.

Tamura, I., (Some scarabaeid beetles attacking soy bean and grape.) J. Plant Prot., Tokyo, 37/38. 1952, 329—331.

Topi, M., (Control of Phylloxera with chemical products.) Coltiv., Giorn. vinic. ital. (n. ser.), Casale Monferrato, 98. 1952, 91—94.

Trouillon, L.-L., Les éphippigères. Progr. agric., vitic., Montpellier, 137. 1952, 287—289.

Twight, E. H., Essais de lutte contre la phylloxéra en Californie. Progr. agric., vitic. 137. 1952, 129—131.

Vasseur, R., et **Bianchi, H.,** Observations sur l'emploi des huiles minérales pour les traitements de la vigne. [Pulvinaria vitis, Eulecanium corni] Ann. Épiphyties, Paris, 3. 1952, 315—322.

Vega, J., Lucha antifiloxérica; injertación sobre pies resistantes. IDIA (Inform. Invest. agríc.), Buenos Aires, 5. 1952, nr. 53, p. 16—32.

Vega, J., Protección vitícola contra la »anguilulosis«. [Meloidogyne incognito] IDIA (Inform. Invest. agríc.), Buenos Aires, 5. 1952, nr. 53, p. 35—37.

Weiler, W., 1951er Sauerwurmschäden am Mittelrhein. [Clysia ambiguella, Polychrosis botrana] Dtsch. Weinbau, Mainz, 7. 1952, 29—30.

Winkler, A. J., Algunos antecedentes sobre la filoxera y su control en los viñedos de California. Mundo agríc., Barcelona, 4. 1952, nr. 36, p. 37—41.

Zimmermann, J., Weinbauliche Versuche in Argentinien. [Reblaus] Weinbau/Wiss. Beih. 6. 1952, 44—53.

Zweigelt, F., San-José-Schildlaus im Weinbau. Ztschr. angew. Ent. 33. 1952, 137—141.

Bekämpfung des Heuwurmes. Schweiz. Ztschr. Obst-, Weinbau 61. 1952, 195.

Heuwurmbekämpfung und Vogelschutz. Schweiz. Ztschr. Obst-, Weinbau 61. 1952, 264.

Rote Spinne und Heuwurm. Schweiz. Ztschr. Obst-Weinbau 61. 1952, 196.

Die Schädlingsbekämpfung 1951. [Clysia ambiguella, Polychrosis botrana] Dtsch. Weinbau, Mainz, 7. 1952, Nr. 2, S. 28—29.

e. Virus

Branas, J., Remarques et observations sur la dégénérescence infectieuse de la vigne. Progr. agric., vitic., Montpellier, 137. 1952, 310—324, 9 fig.

Cairaschi, E. A., Quelques observations sur l'état sanitaire du vignoble américain. Importance de la maladie de Pierce et autres maladies à virus. Progr. agric., vitic., Montpellier, 138. 1952, nr. 31, p. 59—63.

Fogliani, G., La degenerazione infettiva della vite: norme per la ricostituzione viticola. Voghera Pio Ist. Agric. Gallini 1952. 16 p., 16 fig.

Fogliani, G., Segnalazione di una alterazione della vite del tipo »Panachure«. (A vines plant disease of the »panachure« type.) Not. Mal. Piante nr. 21. 1952, 8—10.

Fogliani, G., Segnalazione di una malattia della vite riferibile a degenerazione infettiva (arricciamento, roncet, ecc.) a San Colombano al Lambro (Milano). (Presence of a vine plant disease attributed to the infective degeneration (leaf curl, roncet, etc.) in San Colombano al Lambro (Milano).) Not. Mal. Piante nr. 20. 1952, 32—35.

Freitag, J. H., Frazier, N. W., and **Flock, R. A.,** Six new leafhopper vectors of Pierce's disease virus. Phytopathology 42. 1952, 533—534.

Huglin, P., Die infektiösen Abbaukrankheiten der Rebe. Mitt. höh. Bundeslehr-, Vers.anst. Wein-, Obstbau, Klosterneuburg, 2. 1952, 91—98, 6 Abb.

Maillet, P., Sur la possibilité de transmission de virus par le Phylloxera de la vigne. Compt. rend. Acad. Sci., Paris, 235. 1952, 907—908.

Stoner, W. N., A comparison between grape degeneration in Florida and Pierce's disease in California. [includes possible role of insects as vectors] Florida Entomologist 35. 1952, 62—68.

Vuittenez, A., Sur la présence de cordons endovasculaires chez les vignes atteintes de panachure, et leur apparition dans des boutures inoculées par greffage. Compt. rend. Acad. Sci., Paris, 234. 1952, 1205—1207.

Vuittenez, A., Transmission par double greffage d'une panachure infectieuse de la vigne. Compt. rend. Acad. Sci., Paris, 234. 1952, 1084—1086.

8. Forstgehölze, Nutzhölzer, Holzzerstörer und Holzschutz
Forest trees, timbers, parasites of wood and wood preservation
Arbres forestiers, bois d' œuvre, parasites et protection du bois

a. Allgemeiner Teil
General part — Partie générale

Acatay, G., Necessity to improve pastures to reach efficient forest protection. Istanbul Univ., Fak. Sci. Forest., P. 21. 1952, 24—25.

Adam, J. G., Lutte contre le déboisement en région forestière de la Guinée Française par les cultures arbustives. Rev. int. Bot. appl., Agric. trop., Paris, 32. 1952, nr. 351/352, p. 37—44.

Aughanbaugh jr., J. E., Some beneficial forest birds. Pennsylv. Forests, Waters 4. 1952, 92—95.

Baader, G., Untersuchungen über Randschäden. J. D. Sauerländer's Verlag, Frankfurt/M. 1952. [2] + 73 S., 10 Abb. (Schr.reihe forstl. Fak. Univ. Göttingen Bd. 3.)

Basham, J. T., Forest pathology in Ontario. Log Book Thunder Bay Timber Operators Assoc. (Canada) 3. 1952, nr. 6, p. 14—15.

Baxter, D. V., Pathology in forest practice. J. Wiley & Sons, Inc., New York, and Chapman & Hall, Ltd., London 1952. 2. ed., XIII + 601 p., 224 fig.

Bellan, A., La culture du peuplier. [maladies et insectes] Tarn-et-Garonne agric. (France) 15. 1952, 127—128.

Billep, F. K., Hambre y desolación; consecuencia funesta de la desforestación desmedida. Escuela Farmacia (Guatemala) 13. 1952, nr. 169/170, p. 26—28.

Biraghi, A., Il disseccamento degli abeti di Vallombrosa. (Drying up of Abies in Vallombrosa.) Boll. Staz. Pat. veg., Roma, 8 (ser. 3) (1950). 1952, 137—147, 6 tab.

Booth, C. E., Christmas vandalism in our forests. Nature Mag., Baltimore, 45. 1952, 538—539.

Breunlin, R., Die Weißtanne an der Grenze ihres natürlichen Verbreitungsgebietes im Kreise Leonberg. [Krankheiten] Allg. Forst-, Jagd-Ztg. 123. 1952, 112—117.

Brohmer, P., Nadelwald. [Schädlinge] Quelle & Meyer, Heidelberg 1952. 6 + 152 S., 186 Abb.

Buhr, H., Über das Verhalten einheimischer Eichenparasiten gegenüber einigen Formen und ausländischen Verwandten unserer Eichen. Mitt. dtsch. dendrol. Ges. Nr. 57. 1951/1952, 108—127, 1 Taf.

Buro, A., Bericht über die Erkrankung der Markstrahlen des Rotbuchenholzes. Arch. Forstwesen 1. 1952, 167—172, 12 Abb.

Carrera, C. J. H., La enfermedad de los almacigos de las coníferas. Almanaque Minist. Agric., Ganad., Buenos Aires, 26/27. 1951/1952, 191—192.

Caswell, J. W., Forest protection in a changing forest. Wisconsin Concerv. Bull., Madison, 17. 1952, nr. 9, p. 24—25.

Copeland jr., O. L., Root mortality of shortleaf and loblolly pine in relation to soils and littleleaf disease. [Pinus echinata, P. taeda] J. Forestry 50. 1952, 21—25.

Dannfelt, M. J., Svensk skogsvård under ett halvsekel. (Schwedische Forstwirtschaft während eines halben Jahrhunderts.) Svenska Skogsvårdsfören. Tidskr., Stockholm, 50. 1952, 118—136, 13 fig.

Dauberschmidt, K., Zur Gerätefrage bei der Forstschädlingsbekämpfung. Allg. Forstztschr. 7. 1952, 42—45.

Davis, S. H., Tree troubles as affected by heredity and environment. Trees, Cleveland, 12. 1952, nr. 2, p. 10, 12, 26—27.

De M. Maia, L. C., (Forest patrols.) Fauna (Brasil) 11. 1952, nr. 8, p. 34—36.

Dieguez C., J., Estudio de las enfermedades del platano en Tingo Maria. Vida agric., Lima (Peru), 29. 1952, 203, 205, 207, 209, 211, 213—214, 217—218.

Downs, L. E., A paint-spray nozzle for marking trees. US Forest Serv. Forest Prod. Lab. Rept. R 1914. 1952, 3 p.

Dsiwak, M. F., Uchod sa dubrawnymi molodnjakami sposobom kolzewanija i wyrubki. (Pflege der Eichenjungwuchsbestände durch Ringelung und Durchforstungen.) Lesn. Chosjaistwo (USSR) 5. 1952, nr. 5, p. 52—55.

Dumanskij, A. W., and Ischlinskij, A. I., (On regularities of bark cracking on trees.) Dokl. Acad. Nauk SSSR 84. 1952, 161—164.

Elton, E. T. G., Verbetering van de mierenstand onzer bossen. [Formica rufa] (Verbesserung des Ameisenbestandes unserer Wälder.) TNO-Nieuws (Org. toegepast-natuurwetensch. Onderz.), Amsterdam, 7. 1952, nr. 70, p. 43—44, 2 fig.

Fenska, R. R., Diagnosing tree troubles. Amer. Forests 58. 1952, nr. 8, p. 13, 41—42.

Feucht, O., Naturschutz und Forstwirtschaft. H. Bermühler, Berlin-Lichterfelde 1952(?) 105 S., 32 Taf.

Flerow, S. K., (Forest pathologist-doctor of the forest.) Lesnoe Khoziaistvo (USSR) 5. 1952, nr. 9, p. 69—70.

Flerow, S. K., Lesosaschtschita — nowaja otraslj snanij lesowodstwa. (Forstschutz — ein neuer Wissenszweig des Forstwesens.) Lesn. Chosjaistwo 5. 1952, 75—76.

Foster, R. E., Estimating decay in western hemlock. I. Suggested aids to the inventory in the Queen Charlotte Islands. Brit. Columbia Lumberman, Vancouver, 36. 1952, nr. 11.

Gäbler, H., Giftspritzringmethode mit neuen Mitteln. Wald 1952, 19.

Geiger, R., Die Wirtschaftlichkeit der Frostschadenbekämpfung in Forstkulturen. [Bemerkungen eines Klimatologen] Allg. Forstztschr. 7. 1952, 237—238.

Gorschkow, M. A., Rabota lesosaschtschitnych stanzij w busulukskom boru. (Die Arbeit der Waldschutzstationen in der Busuluker Heide.) Lesn. Chosjaistwo (USSR) 5. 1952, 70—71.

Grisvard, P., Les arbres d'ombrage de la région parisienne: considérations sur leur comportement. Jardins France, Paris, 6 (Sér. 7). 1952, nr. 47, p. 175—183, 2 fig.

Guljaew, W. W., (Treatment of pine seeds during storage.) Agrobiologiia, Moskwa, 2. 1952, 119—122.

Guzman, R. P., Experimento sobre el control del »damping off« en los semilleros forestales de la escuela. Mensajero forestal (Mexico) 95. 1952, 8—9.

Györfi, J., Krankheiten und Schädlinge der Pappeln in Ungarn. Acta agron. Acad. sci. hung. 2. 1952, 41—79.

Haber, A., Ochrona lasu w kwietniu. (Forstschutz im April.) Las Polski 36. 1952, nr. 4, p. 31—33.

Hachenberg, F., Gedanken zum Buchensterben. Allg. Forstztschr. 7. 1952, 152.

Haslund, O., (Military maneuvers and the future of the forest.) Skogbrukeren (Norge) 27. 1952, 69—70.

Hepting, G. H., Forest insects and diseases programs and problems in the Southeast. Forest Farmer 11. 1952, nr. 4, p. 6—7, 14.

Hepting, G. H., Forest tree diseases. In: Conservation Congress, Raleigh, 1952. Conservation and Development in North Carolina (Raleigh 1952) vol. 1, p. 89—92.

Henry, B. W., and Lee, R. E., Pests that may attack your shade trees. [insects and fungi] Forests and People 2. 1952, nr. 3, p. 26—27, 43.

Huss, E., Skogsforskningsinstitutets metodik vid fröundersökningar. (Methods used at the Swedish Forest Research Institute in seed experiments.) Meddel. Stat. Skogsforskn.inst. (Mitt. forstl. Forsch.-anst.), Stockholm, 40 (1951). 1952, nr. 6, 82 p., 34 fig.

Jahn, E., Forstschädlingsauftreten in Tirol im Jahre 1951. Österr. Viertelj.schr. Forstwesen 93. 1952, 94—104.

Joly, R., État sanitaire des forêts pendant l'année 1952. Rev. forest. franç., Nancy, 2. 1952, 136—137.

Jones, W. N., Fused needle disease in Pinus palustris. Empire Forestry Rev. 31. 1952, 325—326.

Kapuściński, St., Prace Stacj Ochrony Lasow Górskich. (Arbeiten der Station für den Schutz von Bergwäldern.) Sylwan, Lwów i Warszawa, 96. 1952, 116—121.

Karwezkij, W. W., Uchod sa polesaschtschitnymi lesonasashdenijami. (Pflege der feldschützenden Waldbestände.) Les i Step' (USSR) 4. 1952, 87—89.

Koch, M., Giftring und Ringspritzer, das neue Verfahren zur Bekämpfung waldbaulicher Schädlinge. Wald 1952, 11.

Koch, W., Der Bauernwald im Januar-Dezember. Württ. Wochenbl. Landw. 119. 1952, 48—49, 5 Abb.; 111—112, 2 Abb.; 237—238, 3 Abb.; 363—364, 3 Abb.; 429—430, 6 Abb.; 559, 3 Abb.; 636—637, 3 Abb.; 702—703, 5 Abb.; 829—830, 4 Abb.; 950—951, 3 Abb.; 1037, 3 Abb.; 1151—1152, 4 Abb.

Koegel, L., Waldkatastrophen. Orion 7. 1952, 757—762.

Koehler, W., Z działalności Zakładu Ochrony Lasu. (Tätigkeitsbericht der Abtlg. Forstschutz des Forschungsinstituts für Forstwirtschaft.) Sylwan, Lwów i Warszawa, 96. 1952, 85—99.

Korjakin, D. A., Rost i ustojtschiwostj kultur duba w tuljskich sasekach. (Wachstum und Widerstandsfähigkeit der Eichenkulturen in den Hegewäldern von Tula.) Lesn. Chosjaistwo (USSR) 5. 1952, 44—46.

Krstić, M., Nekoliko novih i redih fitopatoloških pojava u šumama i rasadnicima. (Maladies nouvelles ou rares constatées dans les forêts et les pépinières.) Saschtita Bilja (Plant Prot.), Beograd, nr. 12. 1952, 49—51, 2 tab.

Krumschmidt-Weka, W., Künstliche Ameisenvermehrungen. Einrichtung von Zuchtstationen im Fürstl. Ysenburg und Büdingischen Privatforstbereich. Allg. Forstztschr. 7. 1952, 455.

Kujala, V., Eräistä ruskettumisilmiöistä elävien puiden rungoissa. (Über einige Verbräunungserscheinungen in lebenden Baumstämmen in Süd- und Mittelfinnland.) Julkaisuja Metsätieteellisen Tutkimuslaitoksen (Finland) 40. 1952, nr. 14, 24 p.

Kuntz, J. E., Developments in oak wilt research. Arborist's News 17. 1952, 101—105.

Langner, W., Reziprok unterschiedliches Verhalten von Lärchenbastarden gegen eine Nadelerkrankung. Ztschr. Forstgenetik 1. 1952, 78—81.

Larsen, C. S., Studies of diseases in clones of forest trees. Hereditas, Lund, 39. 1952, 179—200, 6 fig.

Lebarron, R. K., Silvicultural practices for lodgepole pine [Pinus contorta latifolia] in Montana. US Forest Serv. North. Rocky Mountain Forest, Range Exp. Stat., Paper 33. 1952, 19 p.

Leontjewa, I. A., and Zubow, M. F., (New preparation for the control of acorn diseases.) Les i Step' (USSR) 4. 1952, nr. 10, p. 23—26.

Logginow, B. I., (Protective forestation of irrigated lands in the area of the South-Ukrainian Canal.) Lesnoe Khoz. (USSR) 5. 1952, nr. 4, p. 7—12.

Longwood, F. R., Mortality following heavy partial cutting in a hardwood-hemlock (Tsuga) forest. US Forest Serv., Lake States Forest Exp. Stat., St. Paul (Minn.), Techn. Note 380. 1952, 1 p.

Luthardt, W., Biologische Stubbenrodung. Wald 2. 1952, 4 S., 8 Abb.

Lutz, H. J., Occurrence of clefts in the wood of living white spruce in Alaska. J. Forestry 50. 1952, 99—102, 5 fig.

Lyssenko, T. D., Resultaty opytnych i proiswodstwennych posewow lesnych polos gnesdowym sposobom. (Ergebnisse der Arbeiten bei der Anlage von Waldstreifen nach der Nestersaatmethode.) Lesn. Prom. (USSR) 1952, nr. 28, p. 2.

Machnowskij, I. K., (Sanitation of the Juniperus forests in Uzbekistan.) Lesnoe Khoz. (USSR) 5. 1952, nr. 6, p. 62—65.

McKee, R. G., Forest protection planning and training in the B. C. Forest Service. Proc. west. Forestry, Conserv. Assoc. (Oregon) 43. 1952, 43—44.

Maksimović, M., (La protection des forêts dans la nouvelle organisation de l'économie forestière.) Šumarstvo (Yougoslavia) 5. 1952, 372—377.

Marinković, B., (Problem of dying away of evergreens-oak [Quercus ilex] in Dalmatia.) Šumarski List, Zagreb, 76. 1952, 403—408.

Martin, F., Le problème forestier dans nos territoires de la France d'Outre-Mer. Rev. int. Prod. colon., Paris, 27. 1952, 157—159.

Masochin-Porschnjakow, G. A., Wreditelj tatarskogo klena. (Ein Schädling von Acer tataricum L.) Les i Step' (USSR) 4 (5). 1952, 81.

Matkowskij, S. T., O borbe s potschwennymi wreditelj ami sejanzew duba i drugich porod. (Über die Bekämpfung der Bodenschädlinge der Sämlinge von Eichen und anderen Holzarten.) Les i Step' (USSR) 4. 1952, 82—83.

May, C., and **Baker, W. L.,** Insects and spread of forest tree diseases. US Dept. Agric. Yearb. Agric. 1952, 677—682, 2 fig.

Mergen, F., and **Winer, H. I.,** Compression failures in the boles of living conifers. J. Forestry 50. 1952, 677—679.

Métro, A., La recherche forestière au Maroc. Rev. forest. franç., Nancy, 1952, nr. 6, p. 408—418, 3 fig.

Mischkow, F. F., and **Tregubow, G. A.,** (Regeneration of Amur velvet tree [Gynura] by injuring the roots.) Lesn. Khoz. (USSR) 5. 1952, nr. 5, p. 56—58.

Neilson Jones, W., Fused needle disease in Pinus palustris. Empire Forestry Rev. 31. 1952, 325—326, 1 tab.

Nikitin, P. D., Wyraschtschiwanie polesaschtschitnych lesnych polos. (Aufzucht feldschützender Waldstreifen.) Les i Step' (USSR) 4. 1952, 87—91.

Offner, H., Stirbt die Weißtanne aus? [Krankheiten] Allg. Forst-, Jagd-Ztg. 124. 1952, 39—51, 2 Landkart.

Peace, T. R., The pathological section of the Forest Research Station. J. R. Inst. Chartered Surveyors 32. 1952, 114—116.

Peace, T. R., Poplars. [diseases and pests] Bull. Forest. Comm., London, 19. 1952, iv + 50 p., 24 tab. geogr.

Peschaut, Zwei wichtige Schädlinge der jungen Kanadapappelkulturen. Österr. Forst-, Holzw. 7. 1952, 198.

Pfeffer, A., The control of forest diseases and insect pests. Proc. United Nations Sci. Conf. Convers., Util. Resources 5. 1952, 62—66.

Pisarska, M., Bibliografia polskiego pismiennictwa lesnego. (Polnische forstliche Bibliographie. Von 1945—1949.) Panstw. wydawn. roln., lesne, Warszawa 1951. 116 p.

Ponomarenko, A. W., Chimitscheskij sposob borby s wreditelj ami gnesdowych posewow duba. (Chemische Methode zur Bekämpfung der Schädlinge der Eichennestersaaten.) Lesn. Chosjaistwo (USSR) 5. 1952, 77—78.

Prebble, M. L., and **Bier, J. E.,** Protection of the forest against insects and disease. Pap. VIth Brit. Commonw. Forest. Conf. (Canada) 1952, 8 p.

Razous, P., La production en sylviculture en exploitation forestière et dans les industries du bois. [incendie, maladies des champignons et insectes] Bois et Scieries (France) 58. 1952, 999—1001.

Ribaldi, M., Ricerche preliminari sopra un disseccamento delle piante di Pinus nigra Arn. var. austriaca Hoess. (Vorläufige Untersuchung einer Dürrekrankheit der österreichischen Schwarzkiefer.) Boll. Soc. ital. Biol. sperim., Napoli, 28. 1952, 139—140.

Riquelme Inda, J., Desforestación: causa de las inundaciones. Comercio mexicano Aug. 1952, 32—34.

Rode, O., (Do we dare use exotic trees in Norwegian reforestation?) Tidsskr. Skogbruk, Oslo, 60. 1952, 288—290.

Rol, R., La protection de la forêt française. Phytoma, Paris, 5. 1952, nr. 40, p. 39—43, 8 fig.

Rusden, P. L., Some infectious shade tree diseases common to eastern Massachusetts. Proc. nat. Shade Tree Conf. 28. 1952, 79—84.

Sabinin, S. W., Lesnyje polosy w Kulundinskoj stepi. (Waldstreifen in der Kulundasteppe.) Les i Step' (USSR) 4. 1952, 44—48.

Scheffer, T., and **Englerth, G. H.,** Decay resistance of second-growth Douglas-fir. J. Forestry 50. 1952, 439—442, 1 fig.

Schimitschek, E., Probleme des Forstschutzes in der Türkei. Ztschr. Weltforstw. 15. 1952, 58—65.

Schimitschek, E., Über Krankheitsbegriff, Disposition und Vorbeugung im Forstschutz. Ztschr. angew. Ent. 33. 1952, 18—31.

Smida, M., Ako máme nazerat' na otázku ochrany lesa v ČSR. (Wie haben wir die Waldschutzfrage in der ČSR anzusehen?) Lesn. Práce (Oeuvre Forest.), Pisek, 31. 1952, 1—3.

Solowjew, K. P., and **Prozumenschtschikowa, L. T.,** (Safeguarding the pine belt of the Zavitin sovkhoz.) Les i Step' (USSR) 4. 1952, nr. 7, p. 87—88.

Stewart, G. I., The field of engineering in forest protection. J. Forestry 50. 1952, 379—383.

Sukatschew, W. N., O nekotorych teoretitscheskich osnowach nautschno-issledowatelskich rabot po polesaschtschitnomu lesoraswedeniju. (Über einige theoretische Grundlagen der wissenschaftlichen Forschungsarbeiten über den feldschützenden Waldanbau.) Lesn. Chosjaistwo (USSR) 5. 1952, 19—26.

Thacker, D. G., and **Good, H. M.,** The composition of air in trunks of sugar maple in relation to decay. Canad. J. Bot. 30. 1952, 475—485.

Tilford, P. E., Dieseases of evergreen trees. [mainly fungus diseases] Arborist's News 17. 1952, 75—78.

Tiraboschi, G., (Observations and practical notes on attacks of pests on trees.) [rodents, fungi, insects] Italia forest., mont., Firenze, 7. 1952, 208—211.

Ustinov, A. A., (Machine for setting up mechanical protection [for forest crops] on sands.) Les i Step' (USSR) 4. 1952, nr. 11, p. 59—60.

Vajda, Z. J., (Control of the drying up of elm.) Šumarski List, Zagreb, 76. 1952, 326—335.

Van Goor, C. P., Over regeneratie van gedegradeerde bosgronden. (Über die Wiederherstellung von zerstörten Wäldern.) Tijdschr. nederl. Heidemaatsch. 63. 1952, 109—115, 5 fig.

Verduzco Gutierrez, J., Algunos aspectos del problema de sanidad forestal en México. Chapingo (Mexico) 1952. 180 p.

Waterman, A. M., and Aldrich, K. F., Surface sterilization of poplar cuttings. Plant. Dis. Reptr. 36. 1952, 203—207.

Watts, L. F., Insects and dieseases, the greatest forest menace. Trans. north amer. Wildlife Conf. 17. 1952, 20—26.

Wellenstein, G., Chemische und biologische Schädlingsbekämpfung. Forstarchiv 23. 1952, 69—70.

Wellenstein, G., Die Lage im Forstschutz Südwestdeutschlands. Allg. Forstztschr. 7. 1952, 39—41.

Wellenstein, G., Neue Wege zur Steigerung der Wirtschaftlichkeit in der forstlichen Schädlingsbekämpfung. Mitt. Biol. Zentralanst. H. 74. 1952, 50—57, 6 Abb.

Went, J. C., Verslag van de onderzoekingen over de iepenziekte en andere boomziekten, uitgevoerd op het Phytopathologisch Laboratorium »Willie Commelin Scholten« te Baarn in 1951. (Report of the investigations on the elm disease and other tree diseases carried out at the Phytopathological Laboratory »Willie Commelin Scholten«, Baarn, in 1951.) Inst. Toegep. biol. Onderz. Natuur Meded. nr. 47. ?1952, 5 p.

Wentzel, K. F., Kriegsfolgeschäden an Wald und Holz. Allg. Forstztschr. 7. 1952, 32—34.

Wet, E. I., (Oak planting with acorns treated with AB preparations and granosan.) Lesnoe Khoz. (USSR) 5. 1952, nr. 4, p. 89—90.

Winch jr., F. E., Care of forest plantations on farm lands. Cornell agric. Exp. Stat. Ext. Bull. 867. 1952, 24 p., 17 fig.

Young, R. A., and Deep, I. W., Diseases of holly in the Pacific Northwest. Arboretum Bull., Seattle (Wash.), 15. 1952, nr. 4, p. 18, 23.

Zentgraf, E., Über die Empfindlichkeit der Holzarten gegen Splitterschäden. [Bombenwirkungen] Allg. Forst-, Jagd-Ztg. 123. 1952, 233—234.

Zwölfer, W., Zum Giftnebeleinsatz im Forstschutz. Ein Wort der Besinnung. Allg. Forstztschr. 7. 1952, 173—174. — Anz. Schädl.kunde 25. 1952, 113—115.

Zycha, H., Das Buchensterben, Ursache und Prognose. In: Vorträge der Hochschulwoche Hann.-Münden 1951 (J. D. Sauerländer's Verlag, Frankfurt/M. 1952), S. 75.

Die Bekämpfung der elementaren Waldschäden. Österr. Forst-, Holzw. 7. 1952, 274—275.

Berättelse över verksamheten vid Statens Skogsforskningsinstitut under år 1950. (Bericht über die Tätigkeit der Forstlichen Forschungsanstalt Schwedens im Jahre 1950.) Meddel. Stat. Skogsforskn.inst., Stockholm, 40 (1951). 1952, nr. 8, p. 1—21.

Bibliographie des ausländischen forst- und holzwirtschaftlichen Schrifttums. Folge 5. Mitt. Bundesanst. Forst-, Holzw. 28. 1952, 256 S.

Canada Department of Agriculture, Division of Forest Biology: Annual report of the forest insect and disease survey, 1951. Ottawa 1952. 154 p.

Diseases of the chestnut and poplar in Europe. Part I. Blight of chestnut and three European oaks. Part II. The danger of spreading diseases on poplar cuttings. Org. europ. econ. Co-op. (OEEC), Paris 1952. 26 fig.

Forest biology. Canada Dept. Agric., Sci. Serv., 1952, 18 p.

Forest insects and diseases; a conservation teaching aid. US Forest Serv., Washington, 1952, 8 p.

Forstschädlinge. Gesunde Pflanzen 4. 1952, 252—253, 6 Abb.

Insects and diseases threaten forests. Texas Forest News 31. 1952, 5—8.

Kriegsfolgeschäden an Wald und Holz. Allg. Forstztschr. 7. 1952, 32—34, 5 Abb.

Pflanzenschutzmittel-Verzeichnis (Auszug). Verzeichnis amtlich geprüfter und anerkannter Forstschutzmittel. (Forstschutzmittel-Verzeichnis.) Merkbl. Biol. Bundesanst., Braunschweig, Nr. 10. 1952, 4 S.

b. Nichtparasitäre Krankheiten
Diseases not caused by parasites
Maladies non parasitaires

Klimaeinflüsse
Climatic influences — Influence du climat

Alpatjew, G. M., Lesnye saschtschitnye polosy po beregam Zimljanskogo wodochranilischtscha. (Schutzwaldstreifen an den Ufern des Zimljansker Wasserreservoirs — in der Zone des Wolga-Don-Kanals.) Lesn. Chosjaistwo (USSR) 5. 1952, 18.

Arrigoni, A., und Blumer, E., Lawinenverbauung und Aufforstung. Prakt. Forstwirt Schweiz, Zürich, 88. 1952, 55—63.

Barner, J., Waldbauliche und forstbotanische Grundlagen zur Frage des Anbaus trockenresistenter Pappeln auf grundwassergeschädigten Standorten. Ber. naturforsch. Ges. Freiburg/Br. 42. 1952.

Bindseil, Blitzschäden an Fichtenstämmen. Holz-Zentralbl. 78. 1952, 1868.

Bodrov, V. A., Les v boji proti suchu. (Wald im Kampf gegen Dürre.) Lesnická Knihovna, Praha, Svazek (Forstl. Bibl., Prag, H.) 11. 1952, 106 p., 14 fig.

Campbell, W. A., and Miller, J. H., Windthrow of root-rotted oak shade trees. Plant Dis. Reptr. 36. 1952, 490, 2 fig.

Charitonow, G. A., Erosija w rajone Zimljanskogo wodochranilischtscha i saschtschita jego ot sailenija. (Erosion im Gebiet des Zimljansker Wasserreservoirs und sein Schutz vor Verschlammung.) Les i Step' (USSR) 4. 1952, 21—32.

Curry, J. R., and Church jr., Th. W., Observations on winter drying of conifers in the Adirondacks. J. Forestry 50. 1952, 114—116, 5 fig.

Dauberschmidt, K., Zur Frostschadenbekämpfung in Forstkulturen. Allg. Forstztschr. 7. 1952, 219—223.

De Azevedo, O., (Windbreaks; their effects and best composition.) Bol. Com. Regul. Cereais (Açores) 8. 1952, nr. 16, p. 100—102.

Dworezkaja, E. I., Wlijanie entomowreditelej na sasuchoustojtschiwostj drewesnych i kustarnikowych porod. (Einfluß der Schadinsekten auf die Dürreresistenz der Baum- und Straucharten.) Lesnoe Khoz. (USSR) 5. 1952, 67—71.

Elagin, I., (Ice injuries to forests.) Priroda, Moskwa 41. 1952, nr. 8, p. 119.

Freuding, O., Windschutzanlagen im Walde, eine biologische, wirtschaftliche und ethisch-ästhetische Forderung. Allg. Forstztschr. 7. 1952, 481—483.

Gladyschewskij, M. K., Stotridzatiletnij opyt saschtschitnogo lesoraswedenija w Mochowom. (130 Jahre Erfahrungen im Schutzwaldanbau in Mochowoje, Geb. Orel.) Lesnoe Khoz. (USSR) 5. 1952, 31—33.

Grigorjew, G. W., (Greater attention to waterprotecting forests.) Les i Step' (USSR) 4. 1952, nr. 9, p. 88—89.

Henson, W. R., Chinook winds and red belt injury to lodgepole pine [Pinus contorta latifolia] in the Rocky Mountain Parks area of Canada. Forestry Chron., Toronto, 28. 1952, 62—64.

Hoffman, P. F., Winter injury to trees in Illinois. Plant Dis. Reptr. 36. 1952, 389—390.

Ishida, S., (The occurrence of frost crack on forest trees in Hokkaido.) Res. Bull. Hokkaido Univ., Coll. Agric., Coll. Exp. Forests, Sapporo, 15. 1952, 303—341.

Jackson, L. W. R., Two-year old planting of Monterey pine killed by low winter temperature. Plant Dis. Reptr. 36. 1952, 166.

Kammerer, E. L., Winter injury (1951—52). Bull. pop. Inform. Morton Arboretum, Lisle (Illinois), 27. 1952, 25—28.

Kirwald, E., Forsttechnische Bachverbauung als Landespflege. Forstwiss. Centralbl. 71. 1952, 193—214, 16 Abb.

Kirwald, E., Gestörter Wasserhaushalt erschüttert Landeswirtschaft. Allg. Forstztschr. 7. 1952, 242—245, 5 Abb.

Kornew, W. P., (Snow cover — a sure protection of oak against freezing.) Les i Step' (USSR) 4. 1952, nr. 11, p. 68—70.

Kramer, H., Zur »Frostschadenbekämpfung«. Allg. Forstztschr. 7. 1952, 372—373.

Krečmer, V., (Der Einfluß des Dürrejahres 1947 insbesondere auf den Höhenzuwachs der Waldholzarten.) Sborník českosl. Akad. Zeměd. (Ann. Acad. tchécosl. Agric.), Praha, 25. 1952, 243—260.

Krečmer, V., Pestebni opatreni na suchem ohrozovanem stanovišti. (Waldbauliche Maßnahmen auf dürrebedrohten Standorten.) Lesn. Práce (Oeuvre Forest.), Pisek, 31. 1952, 69—75.

Kreutz, W., Neuere Erkenntnisse auf dem Gebiete des Windschutzes. Ber. dtsch. Wetterdienst US-Zone Nr. 32. 1952, 59—67.

Laitakari, E., Myrskyistä ja myrskyn tuboista suomessa vv. 1911—1950. (On storms and storm damage in Finland during the period 1911—1950.) Julkaisuja Metsätieteellisen Tutkimuslaitoksen (Finland) 40. 1952, nr. 30, 29 p.

Luchnik, Z. I., (On the cold resistance of summer oak in Altai.) Lesnoe Khoz. (USSR) 5. 1952, nr. 11, p. 74—77.

Lutz, H. J., Occurrence of clefts in the wood of living white spruce [Picea glauca] in Alaska. J. Forestry 50. 1952, 99—102.

Macdonald, J. M., Wind damage in middle-aged crops of Sitka spruce [Picea sitchensis], and its prevention. Scot. Forestry J. 6. 1952, 82—85.

Marston, R. B., Ground cover requirements for summer storm runoff control on aspen sites in northern Utah. J. Forestry 50. 1952, 303—307, 5 fig.

Müller, H., Die Verwendung von Pappeln in Windschutzanlagen. Schweiz. landw. Ztschr. »Grüne« 80. 1952, 1123—1126.

Sibilia, C., (Conséquences pour nos bois de la sécheresse persistante pendant les dix dernières années.) Italia forest., mont., Firenze, 7. 1952, 161—167.

Siebert, A., Zur gegenwärtigen Lage des Windschutzproblems in Deutschland. Übersicht 3. 1952, Nr. 10, S. 43—48.

Stone jr., E. L., An unusual type of frost injury in pine. J. Forestry 50. 1952, 560—561, 1 fig.

True, R. P., and Tryon, E. H., Blister-shake, a weather-induced defect in yellow poplar. Phytopathology 42. 1952, 21 (Abstr.).

Tryon, E. H., and True, R. P., Blister-shake of yellow-poplar. [frost damage] West Virginia agric. Exp. Stat. Bull. 350 T. 1952, 15 p., 7 fig.

Villeneuve, G. O., Importance de la météorologie en protection des forêts dans la région du St. Maurice. Quebec Minist. Terres, Forêts, Bur. Mét., Bull. 21. 1952, 42 p.

Wachruschin, G. S., (Development of snow protecting belts with the inclusion of fir (Picea) in the forest-steppe districts of Omsk Region.) Lesnoe Khoz. (USSR) 5. 1952, nr. 6, p. 51—52.

Wilner, J., A study of desiccation in relation to winter injury. Sci. Agric., Ottawa, 32. 1952, 651—658.

Wyman, D., Some winter-killing of certain shrubs, as a result of the winter of 1951—52. Arnoldia, Cambridge (Massachus.), 12. 1952, 49—52.

Zalitschina, M. N., Peresimowka duba w lesnych polosach. (Überwinterung der Eiche in Waldstreifen.) Les i Step' (USSR) 4. 1952, 84.

Bodeneinflüsse und chemische Einflüsse
Soil and chemical influences
Influence du sol et influences chimiques

Bialyi, A. M., (Forest shelterbelts and the water content of soil.) Les i Step' (USSR) 6. 1952, 18—23.

Carpenter, I. W., Iron deficiency in pin oak. [Quercus palustris] Proc. Indiana Acad. Sci. 61 (1951). 1952, 67 (Abstr.).

Copeland, O. L., Root mortality of shortleaf and Loblolly pine in relation to soils and littleleaf disease. J. Forestry 50. 1952, 21—25, 1 fig.

Dobrowolski, I. A., Gasoustojtschiwostj drewesnokustarnikowych porod. (Widerstandsfähigkeit der Baum- und Straucharten gegen Gase.) Lesnoe Khoz. (USSR) 5. 1952, 90—91.

Grano, Ch. X., How do sulfamate poisons kill trees? J. Forestry 50. 1952, 318.

Hubert, F. P., McCubbin, W. A., and Wheeler, W. H., 2, 4-D injury to common horsechestnut causing viruslike symptoms. [Aesculus hippocastanum L.] Plant Dis. Reptr. 36. 1952, 65.

Leitenberger, L., Rauchschäden — eine Gefahr für die Forstwirtschaft. Österr. Forst-, Holzw. 7. 1952, 156—157.

Shaw, C. G., Injury to trees and shrubs in the State of Washington as a result of air pollution. Arboretum Bull., Seattle (Wash.), 15. 1952, nr. 3, p. 22—23, 30—31.

Simkover, H. G., and Shenefelt, R. D., Phytotoxicity of some insecticides to coniferous seedlings with particular reference to benzene hexachloride. J. econ. Ent. 45. 1952, 11—15, 3 fig.

Warcup, J. H., Effect of partial sterilization on the fungal flora of an old forest nursery soil. Gr. Brit. Forestry Comn. Rept. Forest Res. 1950/51. 1952, 136—137.

Waldbrände
Forest fires — Incendies de forêts

Anderson, C. J., Horse-pack pump. Fire Control Notes, Washington, 13. 1952, 30.

Anderson, D. A., Bumper serves as container for torch fluid. Fire Control Notes, Washington, 13. 1952, nr. 2, p. 30—31.

Baker, G. C., A new type of compass for smokechasers. Fire Control Notes, Washington, 13. 1952, nr. 3, p. 22—23.

Bandinelli, R., (Incendiary locomotives.) [fires caused in forests] Terra e Sole (Italia) 117. 1952, 169—170.

Bangsberg, R. C., Fires by the dozen. Fire Control Notes, Washington, 13. 1952, nr. 3, p. 44—46.

Beattie, B., A timetable for large fire management. Fire Control Notes, Washington, 13. 1952, nr. 3, p. 38—40.

Boultbee, R., All in the day's work. [forest fire detection in Canada] Sylva, Toronto, 8. 1952, nr. 3, p. 21—22.

Brown, A. A., Mainstays of forest fire protection. Fire Control Notes, Washington, 13. 1952, nr. 4, p. 29—34.

Buckstein, M. E., Ontario's Indian fire-fighters. Sylva, Toronto, 8. 1952, nr. 5, p. 11—14.

Byram, G. M., and Nelson, R. M., Lethal temperatures and fire injury. Southeast. Forest Exp. Stat., Asheville, N. C., Res. Notes nr. 1. 1952, 1 p.

Cerdan, D., Une industrie au service de la sécurité, celle de la lutte contre le feu, ennemi numéro 1 de la forêt et de l'atelier du bois. Rev. Bois, Paris, 7. 1952, nr. 6, p. 25.

Chaiken, L. E., Annual summer fires kill hardwood root stocks. US Forest Serv., Southeast. Forest Exp. Stat. Res. Notes 19. 1952, 1 p.

Chapman, F. B., Wildlife losses from forest fires. Ohio Conserv. Bull. 16. 1952, nr. 10, p. 20—21.

Cobb, S. S., An answer to forest fire prevention and control in anthracite coal fields. J. Forestry 50. 1952, 834—837.

Cobb, S. S., Smokechasers cool the hot spots. Pennsylv. Forests, Waters 4. 1952, 14—17, 24.

Colvill, L. L., and Everts, A. B., An informal study of power-saw fires. Fire Control Notes, Washington, 13. 1952, 1—5.

Cook, L. F., The 1951 forest fire record. Nat. Parks Mag., Washington, 26. 1952, nr. 108, p. 18, 30.

Corning, H. M., The lookout's mechanical eye. Amer. Forests 58. 1952, nr. 3, p. 18—19, 51.

Cuff, K. A., and Neuns, R. H., Use of aerial photos on Boardman Ridge fire. Fire Control Notes, Washington, 13. 1952, nr. 2, p. 33.

Davis, C., Smokey — at point of sale. Fire Control Notes, Washington, 13. 1952, nr. 2, p. 41—46.

Demotte, E. L., Well-equipped association gives fire protection to its members. Mississippi Valley Lumberman 84. 1952, nr. 12, p. 8.

Devet, D. D., Fire prevention program on Kiamichi Ranger District. Fire Control Notes, Washington, 13. 1952, nr. 3, p. 41—43.

DeYoung, J. S., Our flaming forests. Outdoor Indiana 19. 1952, nr. 10, p. 2, 17.

Dillon, J. C., Forest fire causes classified. Sylva, Toronto, 8. 1952, nr. 3, p. 3—8.

Dimmick, R. S., Fire dispatcher's map board. Fire Control Notes, Washington, 13. 1952, 20—21.

Donohoe, J. F., Class in the outdoors. Fire Control Notes, Washington, 13. 1952, nr. 4, p. 5—8.

Eger, B. A., Fire control and cooperation on the Pedlar Ranger District. Fire Control Notes, Washington, 13. 1952, 12—13.

Eger, B. A., Fire control, wildlife and cooperation. Virginia Wildlife 13. 1952, nr. 11, p. 10—11.

Elliott, R. R., »Protection type« base map and visible card dispatching system for fast fire action. Fire Control Notes, Washington, 13. 1952, 14—19.

Erschow, I. A., Protiwoposharnye pridoroshnye polosy. (Waldbrandschutzstreifen entlang der Waldwege.) Lesnoe Khoz. (USSR) 5. 1952, 84.

Everts, A. B., Fire extinguishers for use with power saws. Fire Control Notes, Washington, 13. 1952, 6—7.

Everts, A. B., Improved smoke candle. Fire Control Notes, Washington, 13. 1952, nr. 3, p. 24—26.

Faugère, M., Depuis les tragiques incendies de 1949 les landes de Gascogne sont soumises à une réorganisation rationelle. Bois nat., Saint-Étienne, 23. 1952, 11—12, 1 fig.

Fedrunow, W., (Study of speed of forest fire spreading.) Lesnoe Khoz. (USSR) 5. 1952, nr. 4, p. 66—67.

Felenczak, W., Próbujmy zastosować środki chemiczne w walce z pozarami leśnymi. (Versuchen wir die Anwendung chemischer Mittel für die Bekämpfung von Waldbränden.) Las polski, Warszawa, 36. 1952, 24—26.

Ferrell, W. K., and **Olson, D. S.,** Preliminary studies on the effect of fire on forest soils in the western white pine [Pinus monticola] region of Idaho. Idaho Univ. Forest, Range, Wildlife Exp. Stat. Res. Notes 4. 1952, 5 p.

Fitzgerald, O. A., Four-day woodsmen. Amer. Forests 58. 1952, 22—23, 33—34.

Foss, W. M., After the storm. [fire control and salvage problem] New York State Conservationist 7. 1952, nr. 3, p. 2—3.

Franklin, R. C., Remote-controlled radio network and fire communication equipment. Fire Control Notes, Washington, 13. 1952, nr. 4, p. 12—16.

Frazier, F., Forest fire control. West Virginia Conserv. 16. 1952, nr. 6, p. 4—5.

García Escudero, P., El seguro de incendios en los montes. Montes, Madrid, 8. 1952, 329—336, 405—411.

Gardner, L. K., Safety chain and link. Fire Control Notes, Washington, 13. 1952, 36—37.

Geete, E., Skogsbrand i Norge. (Waldbrand in Norwegen.) Skogen, Stockholm, 39. 1952, 71.

Gennburg, O., Der Wald brennt! Unser Wald, 5. 1952, Nr. 9, S. 11, 14.

Gillespie, J., Watchers guard historic area against forest fires. Canada Lumberman, Toronto, 72. 1952, nr. 9, p. 77—78.

Graham, H. E., A fire-whirlwind of tornadic violence. Fire Control Notes, Washington, 13. 1952, nr. 2, p. 22—24.

Grizenko, M. W., Gawrilowa, W. M., Wosniknowenie lesnych posharow w swjasi s uslowijami pogody. (Entstehung von Waldbränden in Verbindung mit den Wetterbedingungen.) Lesnoe Khoz. (USSR) 5. 1952, 64—65.

Guck, D. G., War whoops on the fire line. Amer. Forests 58. 1952, 14—15, 39—40.

Gustafson, C. A., Timekeeping on project fires. Fire Control Notes, Washington, 13. 1952, nr. 2, p. 1—5.

Hartman, A. W., Recent developments in Southern fire control. Fire Control Notes, Washington, 13. 1952, nr. 2, p. 25—29.

Hess, Q. F., Fighting forest fires with water bombs. Woodl. Rev., Gardenvale (Que.), 1952, 146—148, fig.

Hess, Q. F., and **Fenwick, A.,** Bombing forest fires with paper bags. Forest and Outdoors (Ontario) 48. 1952, nr. 6, p. 8—9.

Hester, D. A., The pinon-juniper fuel type can really burn. [Pinus edulis, Juniperus] Fire Control Notes, Washington, 13. 1952, 26—29.

Holway, C. P., Fire and renewal. [forest fire control and reforestation on the Nicolet National Forest] Land, [Sydney], 11. 1952, 55—57.

Hopkins, A. S., Planning for fire. New York State Conservationist 6. 1952, nr. 5, p. 20—21.

Ibberson, J. E., Fruits of the fire-fighters' efforts are beginning to ripen. Forest Warden News 26. 1952, nr. 2, p. 2—3.

Inoue, K., (Moisture indicator paper for fire-weather forecast.) Rin-Go-Shiken-Hokoku (Bull. Governm. Forest Exp. Stat.) (Japan) 54. 1952, 79—100.

James, N. D. G., Railways and woodland fires. [fires caused by sparks from locomotives] J. Land Agent's Soc., London, 51. 1952, 196—199.

Jolain, R., Le fonds, Forestier National et la lutte contre les incendies de forêts. Rev. forest. franç., Nancy, 4. 1952, 549—556.

Kozel, H., Fire in the slashings. Wisconsin Conserv. Bull., Madison, 17. 1952, nr. 7, p. 20—22.

Lang, F. H., Stop forest fires. Unit, London, 41. 1952, 22—26.

Lastinger, B. B., Forest fire insurance. J. Forestry 50. 1952, 627—628.

Lastinger, B. B., Is forest fire insurance feasible? Forest Farmer 12. 1952, 5.

Latham, B., Fighting forest fires. [smoke jumpers] Timber Trades J., London, 203. 1952, 1306—1308.

Lindenmuth, A. W., and **Keetch, J. J.,** Fire prevention efforts pay off in the Northeast. US Forest Serv., Southeast. Forest Exp. Stat. Res. Notes 12. 1952, 2 p.

Luiten, I. H., Power-saw motor drives portable fire pump. Fire Control Notes, Washington, 13. 1952, nr. 4, p. 9—11.

McGowin, E. M., You lose when forest burns. Alabama Conserv., Montgomery, 23. 1952, nr. 5, p. 3, 19.

McLees, J. R., Power device for cleaning steel booster tanks. Fire Control Notes, Washington, 13. 1952, nr. 2, p. 36—37.

Markides, A. S., Forest fire control. Countryman, Nicosia, 6. 1952, nr. 6, p. 10—11.

Matthews, F. M., State forest fire fighters risk lives. Pennsylv. Forests, Waters 4. 1952, 56, 72.

Mitchell, J. A., The Lake States Burning Index Meter. Fire Control Notes, Washington, 13. 1952, nr. 3, p. 7—11.

Morriss, D. J., Morgan plow hitch. Fire Control Notes, Washington, 13. 1952, 41—43.

Newland, H. B., Forest fire protection on private land. Kentucky happy Hunting Ground 8. 1952, nr. 3, p. 30.

Niccolini, L., (Fires in Maremma.) [forest fires] Monti e Boschi, Firenze, 3. 1952, 258—261.

Noel, L. E., Testing outfit for unlined linen hose. Fire Control Notes, Washington, 13. 1952, 9—11.

Opengo Escamilla, F., El infierno de la foresta. Campo, Tacuba, 20 (ser. 2). 1952, nr. 724, p. 46—47, 50, 52—53. — Mensajero forest. (Mexico) 10. 1952, nr. 91, p. 6—8.

Pjawtschenko, N. I., (Reasons why burned-over forest areas become swampy.) Lesnoe Khoz. (USSR) 5. 1952, nr. 12, p. 39—40.

Randall, A. G., Maine foresters put fire protection on stage. Fire Control Notes, Washington, 13. 1952, nr. 4, p. 18—19.

Richardson, S. D., Forest fire insurance. II. Quart. J. Forestry (England) 46. 1952, 28—37.

Robinson, D. D., Gasoline power-saw operation fires. Loggers Handb., Portland (Oregon), 12. 1952, 67—73.

Rodgers, E. E., Smokey Bear, his origin and use. Virginia Forests 7. 1952, nr. 1, p. 6—7.

Rowland, H. B., and **Smith, W. H.,** Pennsylvania's forest fire prevention program. Fire Control Notes, Washington, 13. 1952, nr. 2, p. 12—17.

Santos, E., (Every paper balloon that goes up is a danger in the air.) [fire risk prohibited by the Brazilian forestry code] Lavoura e Criação, Rio de Janeiro, 13. 1952, nr. 5, p. 31.

Schenck, C. A., Waldbau und Waldbrand. Allg. Forstztschr. 7. 1952, 182.

Schmidt, H., Waldbrände und ihre Charakteristik. Unser Wald 5. 1952, Nr. 2, S. 10.

Schmidtkunz, O., Waldbrandversicherung. Forst u. Holz 7. 1952, 23—24.

Schönherr, H., Die Eisenbahn, ein Waldbrandstifter? Unser Wald 5. 1952, Nr. 2, S. 11, 14.

Sears, H. M., Willful woods burning No. 1 forestry problem in the South. South. Lumberman, Nashville (Tennessee), 185. 1952, p. 136—139.

Seidel, W. J., Fire protection for the Christmas tree crop. New Jersey Farm Forestry, Christmas Tree Growers Assoc. Bull. 5. 1952, 7, 11.

Simskij, A. M., (Forest fire chemical stations.) Lesnoe Khoz. (USSR) 5. 1952, nr. 8, p. 60—61.

Sipe, H., So you have too many fires! Fire Control Notes, Washington, 13. 1952, 44—46.

Smith, H. H., and **Burke, J. P.,** Keep your ax handle tight. Fire Control Notes, Washington, 13. 1952, nr. 3, p. 4—6.

Smith, J. M., Smokey the bear. [forest fire prevention programs] Fire Control Notes, Washington, 13. 1952, nr. 4, p. 1—4.

Smith, W. H., Drouth and fires bring weird pall of smog to endanger state forests. Pennsylv. Forests, Waters 4. 1952, 143—144.

Spaulding, A. E., US Forest Service views fire protection plans for logging operations. Fire Control Notes, Washington, 13. 1952, 38—40.

Stewart, H., The case of the innocent match. Sylva, Toronto, 8. 1952, nr. 3, p. 23—24.

Such, S., Michigan power-wagon plow. Fire Control Notes, Washington, 13. 1952, nr. 2, p. 18—21; nr. 3, p. 19—21.

Sutton, C. D., Fire camp aids and suggestions. Fire Control Notes, Washington, 13. 1952, 31—33.

Tillinghast, J., Forest fires and the landowner. [prevention and control] West Virginia Conserv. 16. 1952, nr. 6, p. 6—7.

Tomanek, J., Przewidywanie zagrozenia pozarowego w lasach na podstawach meteorologicznych. (Vorhersage von Waldbrandgefahr auf meteorologischer Grundlage.) Las polski, Warszawa, 36. 1952, 13—15.

Torbet, E. R., Fire protection in Victoria. Austr. Timber J. 18. 1952, 749—750, 753—754, 757—758, 760, 762.

Tortorelli, L. A., Los guardabosques paracaidistas resultan una innovación en la lucha contra el fuego. Mundo agríc., Barcelona, 4. 1952, nr. 36, p. 27—28.

Tortorelli, L. A., Los incendios de bosques. Almanaque Minist. Agric., Ganad., Buenos Aires, 26/27. 1951/1952, 377—378.

Towell, W. E., Convenient map carrier for fire trucks. Fire Control Notes, Washington, 13. 1952, nr. 2, p. 32.

Towell, W. E., Radio mount in $^1/_4$-ton jeep. Fire Control Notes, Washington, 13. 1952, nr. 3, p. 14—15.

Towell, W. E., A tractor-drawn fire rake. Fire Control Notes, Washington, 13. 1952, nr. 3, p. 28—29.

Tribbett, V. A., Fire control in Alaska. Our Public Lands 2. 1952, 8—9.

Vietinghoff-Riesch, A. v., Forstliche Eindrücke bei einer Bereisung von Nordamerika. [Feuer] Norddtsch. Holzw. 6. 1952, Nr. 8, S. 5—8.

Walters, W., Forest fire insurance in North America with special reference to B. C. Forestry Chron., Toronto, 28. 1952, nr. 2, p. 31—39.

Webster, L. T., and **Fraser, D. L.,** Slip-on pumper units for forest fire suppression in the Douglas fir region. Fire Control Notes, Washington, 13. 1952, nr. 4, p. 20—23.

Wicklund, H. T., Rotor type fire line trencher. US Forest Serv. E. D. Rept. 17. 1952, 12 p.

Williams, K. F., Closing the woods. [fire control] New York State Conservationist 7. 1952, nr. 3, p. 24—25.

Wilson, K. O., Operation redskin. [indian crews in fire suppression work] Fire Control Notes, Washington, 13. 1952, nr. 3, p. 1—3.

Witherspoon, J. C., South Carolina stresses the importance of protecting little trees in the new fire prevention program. Forest Farmer 11. 1952, nr. 4, p. 4—5.

Wood, W. C., Para-cargo nets. Fire Control Notes, Washington, 13. 1952, nr. 4, p. 26—28.

Wood, W. C., Wind and drift indicator. [for use on helicopter missions] Fire Control Notes, Washington, 13. 1952, nr. 4, p. 17.

Woods, F. W., Carrying case for SF handitalkie. Fire Control Notes, Washington, 13. 1952, 8.

Woods, F. W., Initial fire report form, Region 4. Fire Control Notes, Washington, 13. 1952, nr. 3, p. 36—37.

Woods, F. W., A portable VHF-FM relay assembly for use on large project fires. Fire Control Notes, Washington, 13. 1952, 22—25.

Workman, R., Wild fire! [forest fires] West Virginia Conserv. 16. 1952, nr. 6, p. 10—12.

Wright, F., The protection of rural lands against fire in New Zealand. Unasylva, Rom, 6. 1952, 4—11, 6 fig.

Yarham, E. R., Menace of forest fires. [control in Great Britain] Estate Mag., London, 52. 1952, 196—198.

Zeddies, A., Die Brandhexe tanzt. Unser Wald 5. 1952, Nr. 7/8, S. 8—9.

Cooperative fire fighting by Indiana schools. Fire Control Notes, Washington, 13. 1952, nr. 2, p. 34—35.

Forest fire control. Unasylva, Rom, 5. 1952, 154—157. 2 fig.

Forest fire losses in Canada, 1951. Canada Dept. Resources, Developm., Forest Res. Div., Ottawa 1952. 10 p.

Les **forestiers et la lutte** contre les incendies de forêts. Bois nat., Saint-Étienne, 23. 1952, nr. 7, p. 11.

Laurentian Forest Protective Association: Thirty-fifth annual report 1951. [chiefly fire] Quebec 1952.

Parachuting heavy cargo. Fire Control Notes, Washington, 13. 1952, nr. 2, p. 6—11.

La **protection des forêts** du Var contre les incendies. Bois, Paris, 69. 1952, 2.

Waldbrandbekämpfung. Unasylva, Washington, 1952, 142.

Washington Forest Fire Association: Forty-fourth annual report, 1951. Seattle 1952. 21 p.

c. Pflanzliche Feinde
Vegetal parasites — Parasites végétaux

Bacteria

Sabet, K. A., (Discussion of the cause of the bacterial dieback and canker disease of poplar.) Nederl. Boschbouwtijdschr. 24. 1952, 126—129.

Sabet, K. A., and **Dowson, W. J.,** Studies in the bacterial die-back and canker disease of poplar. I. The disease and its cause. [Pseudomonas syringae f. sp. populnea] Ann. appl. Biol. 39. 1952, 609—616, 1 tab.

Seliskar, C. E., Wetwood organism in aspen, poplar is isolated. [Corynebacterium humiferum] Colorado Farm, Home Res. 2. 1952, nr. 6, p. 6—11, 19—20.

Tešić, Ž., et Todorović, M., (Une nouvelle bactérie phytopathogène, Bacterium sambuci.) Saschtita Bilja (Plant Prot.), Beograd, nr. 11. 1952, 3—12, 2 tab.

Uemura, S., (Studies on the root nodules of alders (Alnus spp.). IV. Experiment on the isolation of Actinomycetes from alder nodules.) V. Some new isolation methods of Streptomyces from alder nodules. Rin-Go-Shiken-Hokoku (Bull. Governm. Forest Exp. Stat.) (Japan) 52. 1952, 1—22. — Bull. Meguro Forest. Exp. Stat. 57. 1952, 209—226, 2 tab.

Fungi

Allgemeiner Teil
General part — Partie générale

Brauns, F. E., Chemistry of lignin. [wood destroying fungi] Academic Press Inc., New York 1952. XV + 808 p., 39 fig.

Campbell, W. A., A root parasite [Phytophthora cinnamomi] and soil conditions in relation to littleleaf disease. [in shortleaf pine] Proc. Assoc. south. agric. Workers 49. 1952, 91—92 (Abstr.).

Domański, S., Zgnilizny odziomkowe Sosny zwyczajnej i próba oceny ich warunków rozwojowych. (Butt rots of Scots pine and an attempt to estimate their developmental conditions.) Sylwan, Lwów i Warszawa, 96. 1952, 5—30.

Gravatt, G. F., Diseases of the chestnut and poplar in Europe. Org. europ. econ. Co-op., Paris 1952. 26 p.

Guljaew, W. W., Mery borby s gribnymi bolesnjami sejanzew bereskleta borodawtschatogo. (Bekämpfungsmaßnahmen gegen Pilzerkrankungen bei Sämlingen des warzigen Pfaffenhütchens.) Lesnoe Khoz. (USSR) 5. 1952, 81—82.

Horner, R. M., Mycological investigations of birch in Ontario. Proc. canad. phytopath. Soc. nr. 20. 1952, 17 (Abstr.).

Mikola, P., Effect of forest humus on parasitic fungi causing damping-off disease of coniferous seedlings. Phytopathology 42. 1952, 202—203.

Moreau, C., et Moreau, M., Étude mycologique de la maladie de l'encre du chêne. Rev. Path. vég., Ent. agric. France 31. 1952, 201—231, 3 tab.

Strong, F. C., Damping-off in the forest tree nursery and its control. [Pinus] Michigan agric. Exp. Stat. Quart. Bull. 34. 1952, 285—296, 5 fig.

Vaartaja, O., Forest humus quality and light conditions as factors influencing damping-off. Phytopathology 42. 1952, 501—506, 1 fig.

Warcup, J. H., Effect of partial sterilization by steam or formalin on damping-off of Sitka spruce. [Pythium] Trans. brit. mycol. Soc. 35. 1952, 248—262, 1 fig., 1 tab.

Ascomycetes

Anderson, R. L., Factors influencing the incidence of Hypoxylon canker of aspen. [H. pruinatum] Diss. Abstr. 12. 1952, 368—369.

Biraghi, A., Nuovi ospiti di Endothia parasitica. (New hosts of Endothia parasitica.) Boll. Staz. Pat. veg., Roma, 8 (ser. 3) (1950). 1952, 35—44, 9 fig.

Boyce, J. S., Cucurbitaria pithyophila, an entomogenous fungus. [on Pinus monticola] Plant Dis. Reptr. 36. 1952, 62—63.

Boyce, J. S., Loblolly pine needle blight caused by the brown-spot fungus. [Scirrhia acicola] US Forest Serv., Southeast. Forest Exp. Stat. Res. Notes 11. 1952, 1 p.

Boyce jr., J. S., A needle blight of loblolly pine [Pinus taeda] caused by the brown-spot fungus. [Scirrhia acicola] J. Forestry 50. 1952, 686—687.

Boyce jr., J. S., Records of flowering dogwood spot anthracnose in North and South Carolina, 1952. [Elsinoë corni] Plant Dis. Reptr. 36. 1952, 296.

Boyce jr., J. S., Scirrhia acicola, a cause of loblolly pine needle browning. Phytopathology 42. 1952, 282 (Abstr.).

Cox, R. S., and **Heuberger, J. W.,** Preliminary information on the use of fungicides for the control of spot anthracnose of flowering dogwood. [Elsinoë corni] Plant Dis. Reptr. 36. 1952, 298—299.

Driver, C. H., Physalospora ilicis on rotundifolia holly in Georgia. Plant Dis. Reptr. 36. 1952, 355, 2 fig.

Erteld, W., Die Bedeutung der Blaufäule bei der Kiefer und die Möglichkeit ihrer Verhütung. Wald 2. 1952, 155—157.

Fergus, C. L., and **Bramble, W. C.,** Research field work on oak wilt control. [Endoconidiophora fagacearum] Pennsylv. agric. Exp. Stat. Bull. 553. 1952, 5—6.

Fischer, F., Maßnahmen gegen das Kastaniensterben im Tessin. Bericht pro 1951. [Endothia parasitica] Schweiz. Ztschr. Forstwesen 103. 1952, 103—106, 2 fig.

Hepting, G. H., Roth, E. R., and **Luxford, R. F.,** The significance of the discolorations in yellow-poplar veneers. [Endoconidiophora (Ceratocystis) coerulescens on Liriodendron tulipifera] US Dept. Agric., Div. Forest Path. North Carolina, Rept. 1375. 1952, 8 p., 2 fig.

Hof, T., Het optreden van blauw in hout. (Verblauen des Holzes.) Houtinstitut (Nederland) 1952. 20 p.

Hvass, J., Douglasgran og sodskimmel. (Die Douglasfichte und der Pilz (Phaeocryptopus gäumanni).) Dansk Skovforen. Tidsskr. 37. 1952, 97—107, 3 fig.

Ito, K., Shibukawa, K., and **Kobayashi, T.,** (Etiological and pathological studies on the needle blight of Cryptomeria japonica. I. Morphology and pathogenicity of the fungi inhabiting the blighted needles.) Rin-Go-Shiken-Hokoku (Bull. Governm. Forest Exp. Stat.) (Japan) 52. 1952, 79—158.

Jehle, R. A., and **Jenkins, A. E.,** Known distribution of flowering dogwood spot anthracnose in Maryland, May 1952. [Elsinoë corni] Plant Dis. Reptr. 36. 1952, 296—298, 1 fig.

Jehle, R. A., and **Jenkins, A. E.,** Northernmost records of flowering dogwood spot anthracnose in Maryland. [Elsinoë corni on Cornus florida] Plant Dis. Reptr. 36. 1952, 110, 2 fig.

Jenkins, A. E., Spot anthracnose of flowering dogwood found in the Nassawanda forest, Maryland, and isolation of the pathogen. [Elsinoë corni] Plant Dis. Reptr. 36. 1952, 294, 1 fig.

Jenkins, A. E., and **Bitancourt, A. A.,** Studies in the Myriangiales. III. Several little-known spot anthracnoses affecting trees. Phytopathology 42. 1952, 12 (Abstr.).

Krampe, O., und **Rehm, H. J.,** Untersuchungen über den Befall von Pseudotsuga taxifolia viridis mit Adelopus Gäumanni Rohde. Nachr.bl. dtsch. Pfl.-schutzd., Berlin, NF. 6. 1952, 208—212, 5 Abb.

Krstić, M., (Endothia parasitica Anders. sur le chêne.) [Quercus sessiliflora] Saschtita Bilja (Plant. Prot.), Beograd, nr. 10. 1952, 83—84, 1 fig.

Langner, W., Reziprok unterschiedliches Verhalten von Lärchenbastarden gegen eine Nadelerkrankung. [Lophodermium] Ztschr. Forstgenet. 1. 1952, 78—81, 1 Abb.

Lundberg, J., (Effect of the 1947 injuries on the growth of the Douglas fir.) [frost and sooty mold due to Phaeocryptopus gäumanni] Dansk Skovforen. Tidsskr. 37. 1952, 467—472.

Mathiesen, A., Über einige mit Borkenkäfern assoziierte Bläuepilze in Schweden. Oikos, København, 2. 1952, 275—308.

Miller, J. H., Spot anthracnose (Elsinoë corni) on Cornus florida in Georgia in 1952. Plant Dis. Reptr. 36. 1952, 295—296.

Müller-Kögler, E., Sy, M., und **Thielicke, W.,** Über Versuche zur Bekämpfung des Eichenmehltaus. [Microsphaera quercina (M. alphitoides)] Forst u. Holz 7. 1952, 159—162.

Nohara, Y., (On the control methods of the needle blight of »Sugi«.) [Cryptomeria japonica D. Don.] J. Plant Prot., Tokyo, 33. 1952, 122—126.

Nohara, Y., and **Zinno, Y.,** (Researches on the prevention of the needle blight of »Sugi« (Cryptomeria japonica D. Don.).) I. Rin-Go-Shiken-Hokoku (Bull. Governm. Forest Exp. Stat.) (Japan) 52. 1952, 159—179.

Pirone, P. P., A bark canker disease of London plane, redbud, and sweet gum. [Botryosphaeria ribis] Phytopathology 42. 1952, 16 (Abstr.).

Regel, C., Das Kastaniensterben (Endothia parasitica), eine drohende Gefahr für unsere Laubhölzer. Illustr. Flora, Wien, 75. 1952, 26—27.

Robak, H., Om saprofyttiske og parasittiske raser af lerkekreftsoppen, Dasyscypha willkommii (Hart.) Rehm. Meddel. Vestl. forstl. Forsøksstat. 29. 1952, 117—211, 13 fig., 5 tab.

Schuldt, P. H., Anthracnose fungi on Sycamore and oak in Iowa. [Gnomonia] Iowa State Coll. J. Sci. 26. 1952, 279—280.

Stambaugh, W. J., A study of the needle cast diseases of conifers in Pennsylvania. J. Forestry 50. 1952, 944.

Stambaugh, W. J., and **Bramble, W. C.,** The occurrence of Rhabdocline needle cast of douglas fir in Pennsylvania. [Rhabdocline pseudotsugae Syd. on Pseudotsuga taxifolia (Lamarck) Britt.] Plant Dis. Reptr. 36. 1952, 292—293, 2 fig.

Van den Ende, G., Een bladvlekkenziekte voorkommend op de populieren, veroorzaakt door Septotinia populiperda Waterman et Cash. (Leaf blotch of poplars caused by Septotinia populiperda Waterman et Cash.) Tijdschr. Plantenziekten 58. 1952, 54—60, 4 fig.

Walter, J. M., Rex, E. G., and **Schreiber, R.,** The rate of progress and destructiveness of canker stain of planetrees. [Endoconidiophora fimbriata f. platani] Phytopathology 42. 1952, 236—239.

Wells, D. E., A primitive ascomycete causing a wood discolouration. Proc. canad. phytopath. Soc. nr. 20. 1952, 23 (Abstr.).

Went, J. C., Boomziekten in de Verenigde Staten. Studierapport. [Endoconidiophora fagacearum, phloem necrosis, Ceratostomella ulmi] Contactgroep Opvoering Productiviteit, 's-Gravenhage 1952. 47 p., 17 fig.

Wenzl, H., Sclerotinia-Spitzendürre bei der Zwergweichsel (Prunus fruticosa Pall.). Sydowia, Ann. mycol., 6. 1952, 288—289.

Wlasow, A. A., (Parasitic fungus [Erysiphe graminis] on European spindle tree.) [Evonymus europaeus] Lesnoe Khoz. (USSR) 5. 1952, nr. 12, p. 81.

Zobrist, L., La chute des aiguilles du pin. Forêt (Suisse) 5. 1952, 147—151.

Nordalpine Laubhölzer in Gefahr! [Endothia parasitica] Schweiz. Ztschr. Obst-, Weinbau 61. 1952, 33—34.

Basidiomycetes

Adams, D. F., Mayhew, D. J., Gnagy, R. M., Richey, E. P., Koppe, R. W., and **Allen, I. W.,** Atmospheric pollution in the ponderosa pine blight area, Spokane County, Washington. Ind., engin. Chem. 44. 1952, 1356—1365, 16 fig., 2 tab. geogr.

Aoshima, K., Butt-rot of Abies mariesii and A. veitchii caused by Tyromyces balsameus and Fomitopsis annosa. [Polyporus balsameus, Fomes annosus] J. jap. Forestry Soc. 34. 1952, 305—307, 4 fig.

Aoshima, K., On the heart-rot fungus of Tohi (Picea hondoensis Mayr.) [Fomes jezoensis] Misc. Inform. Tokyo Univ. Forests 8. 1952, 89—95.

Bakshi, B. K., Oedocephalum lineatum is a conidial stage of Fomes annosus. Trans. brit. mycol. Soc. 35. 1952, 195, 1 tab.

Bavendamm, W., Lenzites abietina (Bull.) Fr. Holz als Roh-, Werkstoff 10. 1952, 261—262.

Baxter, D. V., Some resupinate polypores from the region of the Great Lakes. XXII, XXIII. Pap. Michigan Acad. Sci. 36 (1950). 1952, Part I, p. 69—83, 1 fig., 8 tab.; 37 (1951). 1952, Part I, p. 93—110, 18 tab.

Biraghi, A., Il disseccamento degli abeti di Vallombrosa. [Armillaria mellea and Fomes annosus on Abies pectinata] Boll. Staz. Pat. veg., Roma, 8 (ser. 3) (1950). 1952, 137—147, 6 tab.

Birkinshaw, J. H., Morgan, E. N., and **Findlay, W. P. K.,** Biochemistry of the wood-rotting fungi. 7. Metabolic products of Polyporus benzoinus (Wahl.) Fr. Biochem., J., Cambridge, 50. 1952, 509—517.

Böhner, P., Der Kieferndrehpilz — eine ernste Gefahr für Kiefernkulturen. [Melampsora pinitorqua (caeoma pinitorqum)] Allg. Forstztschr. 7. 1952, 471—475, 7 Abb.

Buchholz, E., Die katastrophalen Hallimaschschäden im Gebiet der Krakauer Forstdirektion. (Nach einem Aufsatz von L. Kulig in »Las Polski« [3]. 1952.) Allg. Forstztschr. 7. 1952, 309.

Elßmann, H., Der Kieferndrehpilz auch in Nordschweden. (Zu Böhner: Der Kieferndrehpilz, eine ernste Gefahr für Kiefernkulturen.) [Melampsora pinitorpua] Allg. Forstztschr. 7. 1952, 498—499.

Garrett, S. D., Investigations on Fomes annosus in East Anglian pine plantations. Great Brit. Forestry Comn. Rept. Forest Res. 1950/51. 1952, 135—136.

Goggans, J. F., Cronartium fusiforme on slash (Pinus caribaea] and loblolly pine (P. taeda) in the Piedmont of Alabama. J. Alabama Acad. Sci. 21/22. 1952, 56 (Abstr.).

Good, H. M., Evidence of fungous successions in decays of sugar-maple. [Corticium vellereum Ell. et Crag.] Proc. canad. phytopath. Soc. nr. 20. 1952, 15 (Abstr.).

Hennig, R., Über die bei uns vorkommenden Sparassis-Arten (Krause Glucke und Eichen-Glucke) und ihren Parasitismus an Waldbäumen. Forstwiss. Centralbl. 71. 1952, 108—116, 4 Abb.

Hepting, G. H., and **Cummins, G. B.,** A new species of Peridermium on Virginia pine. [P. appalachianum n. sp.] Phytopathology 42. 1952, 115—116, 1 fig.

Hirt, R. R., Foliage rust of pine and cedar. [Coleosporium on Pinus and Juniperus] Horticulture (nat. ed.) 30. 1952, 231.

Hussain, S. M., Fomes annosus (Fr.) Cke., a common root-rot. Pakistan J. Forestry 2. 1952, 216—220.

Ito, K., and **Kontani, S.,** (The causal fungus of the web-blight of leguminous woody plants.) [Corticium vagum, C. sasakii] Meguro Forest. Exp. Stat. Bull. nr. 54. 1952, 45—78, 7 fig., 6 tab.

Ito, T., The white stem blight of trees in Japan, with 1 plate. [Cytidia] Misc. Inform. Tokyo Univ. Forests nr. 8. 1952, 79—87, 1 tab.

Jørgensen, E., og **Petersen, B. B.,** Mere om Fomes annosus og Hylesinus piniperda. (Weiteres über Fomes annosus und Hylesinus piniperda.) Dansk Skovforen. Tidsskr. 37. 1952, 213—218.

Johnstone, G. R., Saving the deodar cedar from root-rot fungus. [Armillaria mellea, Trametes pini] Nat. hortic. Mag., Washington, 31. 1952, 218—221.

König, E., Schwammkiefer. Norddtsch. Holzw. 6. 1952, nr. 61/62, S. 4.

Konba, T. F., Are you saving Ribes and destroying white pines ? [blister rust] Wisconsin Conserv. Bull., Madison, 17. 1952, nr. 4, p. 9—13.

Kulig, L., Charakterystyka szkod opienkowych na terenie Krakowskiego Okregu LP. (Charakteristik der Hallimaschschäden in dem Gebiet der Forstdirektion Krakau.) Las polski, Warszawa, 36. 1952, 15—18.

Liubarskij, L. W., (Silvicultural importance of excrescences on branches of ordinary pine.) [Cronartium, Peridermium] Lesnoe Khoz. (USSR) 5. 1952, nr. 2, p. 78—79.

Mańka, K., and **Stube, T.,** Występujący na Brzozach grzyb Poria obliqua (Pers.) Bres. i jego rozwój na sztucznych pożywkach. (The birch fungus Poria obliqua (Pers.) Bres. and its development on artificial media.) Acta Soc. Bot. Polon. 21. 1952, 517—536, 7 fig.

Martin, J. F., Blister rust vs. white pine. Organic Gardg. 20. 1952, nr. 7, p. 30—31.

Mielke, J. L., The rust fungus Cronartium filamentosum in Rocky Mountain ponderosa pine. J. Forestry 50. 1952, 365—373, 3 fig.

Mielke, J. L., and **Cochran, G. W.,** Differences in spore surface markings of three pine rusts, as shown by the electron microscope. Mycologia, Lancaster, 44. 1952, 325—329, 1 fig.

Offord, H. R., Moss, V. D., Benedict, W. V., Swanson, H. E., and **London, A.,** Improvements in the control of Ribes by chemical and mechanical methods. [control of white pine blister rust] US Dept. Agric. Circ. 906. 1952, 72 p.

Parfilova, M. E., (Rust on fir in Carpatian mountain forests.) Lesnoe Khoz. (USSR) 5. 1952, nr. 12, p. 74—75.

Rennerfelt, E., Om angrepp av rotröta på tall. (On root-rot attack on Scots pine.) Meddel. Stat. Skogsforskn.inst. (Mitt. forstl. Forsch. anst.), Stockholm, 41. 1952, nr. 9, p. 1—40, 16 fig.

Rhoads, A. S., The destructiveness of Clitocybe root-rot to plantings of Casuarinas in Florida. Lloydia, Cincinnati (Ohio), 15. 1952. 161—184, 6 fig.

Riley, C. G., Studies in forest pathology. IX. Fomes igniarius decay of poplar. Canad. J. Bot. 30. 1952, 710—734, 8 fig., 3 tab.

Rishbeth, J., Control of Fomes annosus Fr. Forestry, London, 25. 1952, nr. 1, p. 41—50.

Roth, E. R., Roots of living Pinus rigida decayed by Fomes annosus. Plant Dis. Reptr. 36. 1952, 330, 1 fig.

Roth, L. F., Factors affecting the rate of decay of old-growth Douglas fir by Fomes pini. Phytopathology 42. 1952, 518—519 (Abstr.).

Rusden, P. L., Blister rust damage at Waterford, Vermont. [Cronartium ribicola] J. Forestry 50. 1952, 545—551, 5 fig.

Spaulding, P., A stem rust of Pinus roxburghii in India potentially dangerous to the United States. [Peridermium complanatum var. corticola] Plant Dis. Reptr. 36. 1952, 159—161, 2 fig.

Stewart, D. M., Factors affecting local control of white pine blister rust. [Cronartium ribicola] Phytopathology 42. 1952, 475—476.

Toole, E. R., and **Boyce jr., J. S.,** Fomes annosus on Atlantic white cedar. (Chamaecyparis thyoides) Plant Dis. Reptr. 36. 1952, 330.

White-pine blister rust; amendment of administrative instructions designating control areas. US Bur. Ent., Plant Quar. B. E. P. Q. 546. 1952, 1 p.

White-pine blister rust quarantine. US Bur. Ent., Plant Quar. B. E. P. Q. — Q. 63. 1952, 4 p.

Fungi imperfecti

Ames, R. W., Gloeosporium ulmicolum reported on fruit of rock elm and variegated English elm. Plant Dis. Reptr. 36. 1952, 301.

Barnett, H. L., A new method for quick determination of the oak wilt fungus. [Chalara quercina] Phytopathology 42. 1952, 1—2 (Abstr.).

Barnett, H. L., A rapid method for determining oak wilt. [Chalara quercina] Phytopathology 42. 1952, 57.

Barnett, H. L., Results of crossing isolates of Chalara quercina from different states. Phytopathology 42. 1952, 463 (Abstr.).

Barnett, H. L., Lilly, V. G., and **True, R. P.,** Oak wilt fungus in the laboratory. [Chalara quercina] West Virginia agric. Exp. Stat. Bull. 349. 1952, nr. 2, p. 4—5.

Barnett, H. L., Staley, J. M., and **True, R. P.,** Mycelial mats of Chalara quercina on killed oak trees as a potential source of perithecia in nature. Phytopathology 42. 1952, 531—532, 1 fig.

Bazzigher, G., and **Fischer, F.,** Über die Eichenwelkekrankheit in den USA. Schweiz. Ztschr. Forstwesen 103. 1952, 234—238.

Beckman, C. H., Kuntz, J. E., and **Riker, A. J.,** Growth of Chalara quercina in liquid media as influenced by various vitamins and carbon and nitrogen sources. Phytopathology 42. 1952, 463.

Beckman, C. H., Kuntz, J. E., Riker, A. J., and **Berbee, J. G.,** Plugging of vessels associated with oak wilt development. Phytopathology 42. 1952, 2 (Abstr.).

Bretz, T. W., The ascigerous stage of the oak wilt fungus. [Chalara quercina] Phytopathology 42. 1952, 435—437, 1 fig.

Bretz, T. W., Diseases of shade trees. [oak wilt, elm phloem necrosis and Dutch elm disease] Arborist's News 17. 1952, 81—84.

Bretz, T. W., New hosts for the oak wilt fungus, Chalara quercina Henry. Phytopathology 42. 1952, 3 (Abstr.).

Bretz, T. W., The perithecial stage of Chalara quercina Henry. Phytopathology 42. 1952, 3 (Abstr.).

Brinkmann, K. A., Oak wilt mortality in an unmanaged Iowa forest. J. Forestry 50. 1952, 941—942.

Camp, W. H., Oak wilt spreads, pathologists report. Frontiers (Mag. natural Hist.), Philadelphia, 16. 1952, 91.

Carter, J. C., Distribution and spread of oak wilt in Illinois. [Chalara quercina] Plant Dis. Reptr. 36. 1952, 26—27, 1 fig.

Chester, K. St., Menace of oak wilt. Chemurgic Digest, Columbus (Ohio), 11. 1952, nr. 8, p. 4—5.

Cox, R. S., and **Comegys, W. R.,** Notes on apparently undescribed species of Rhizoctonia on conifer seedlings. Phytopathology 42. 1952, 464—465.

Craighead, F. C., and **Morris, C. L.,** Possible importance of insects in transmission of oak wilt. Pennsylv. Forests, Waters 4. 1952, 126—129.

Curl, E. A., Stessel, G. J., and **Zuckerman, B. M.,** Macroscopic growth of the oak wilt fungus in nature. [Chalara quercina] Phytopathology 42. 1952, 6 (Abstr.).

De Mendoza Roldán, M., Preparacion del caldo bordeles destinado al combate del chamusco del platano (Cercospora musae). Fitófilo, San Jacinto (México), 6. 1952, nr. 4, p. 18—21.

Ewing, A., Oak wilt (Chalara quercina) menaces forests. Sci. News Letter, Washington, 61. 1952, 282—283.

Fergus, C. L., Oak wilt found affecting chestnut oak in Pennsylvania. [Quercus montana Willd. (Q. prinus L.)] Plant Dis. Reptr. 36. 1952, 386.

Fowler, M. E., How serious is the oak wilt threat? What are prospects for prevention and control? Forest Farmer 11. 1952, nr. 9, p. 10, 11, 18.

Fowler, M. E., Oak wilt surveys in 1951. [Chalara quercina] Plant Dis. Reptr. 36. 1952, 162—165, 2 fig.

Fowler, M. E., A report on oak wilt. Arborist's News 17 1952, 45—51.

Fritz, C. W., Brown stain in pine sapwood caused by Cytospora sp. Canad. J. Bot. 30. 1952, 349—359, 3 tab.

Gill, L. S., A new host for Septogloeum gillii. (on Pinus) Plant Dis. Reptr. 36. 1952, 300.

Gilman, J. C., and **Wadley, B. N.,** The ascigerous stage of Septoria querceti Thuem. Mycologia, Lancaster, 44. 1952, 216—220, 1 fig.

Grasso, V., Conifere suscettibili ed immuni al Coryneum cardinale Wag. (Gegen Coryneum cardinale empfindliche und unempfindliche Koniferen.) Italia Forest., mont. 7. 1952, 148—149, 7 fig.

Guyton, T. L., An unusual occurrence of oak wilt in Pennsylvania. [Chalara quercina] Plant Dis. Reptr. 36. 1952, 386.

Hepting, G. H., Toole, E. R., and **Boyce jr., J. S.,** Sex and compatibility in the oak wilt fungus. [Chalara quercina] Plant Dis. Reptr. 36. 1952, 64.

Hepting, G. H., Toole, E. R., and **Boyce jr., J. S.,** Sexuality in the oak wilt fungus. [Chalara quercina] Phytopathology 42. 1952, 438—442, 1 fig.

Hoffman, P., Early trials in oak wilt chemotherapy. Phytopathology 42. 1952, 11 (Abstr.).

Honey, E. E., and **Fergus, C. L.,** Oak wilt in Pennsylvania. Pennsylv. State Coll. Agric. Ext. Leafl. 150. 1952, 4 p.

Ito, K., and **Hosaka, Y.,** Notes on some leaf-spot diseases of broadleaved trees. II. Septoria leaf-spot of Zelkova serrata Makino. [Septoria abeliceae] Meguro Forest. Exp. Stat. Bull. 57. 1952, 163—182, 5 fig., 4 tab.

Jevtić, M., Neka zapažanja u vezi sa upotrebom plavog kamena za suzbijanje fuzarioze u šumskim rasadnicima. (Some observations on the use of copper sulphate for controlling fusariosis in forest nurseries.) Šumarstvo (Yougoslavia) 5. 1952, nr. 1, p. 52—56.

Kuntz, J. E., Beckman, C. H., and **Riker, A. J.,** Oak wilt development in relation to time and place of inoculation and concentration of inoculum. [Chalara quercina] Phytopathology 42. 1952, 13 (Abstr.).

Leach, J. G., True, R. P., and **Dorsey, C. K.,** A mechanism for liberation of spores from beneath the bark and for diploidization in Chalara quercina. Phytopathology 42. 1952, 537—539, 3 fig.

Levy, M., Oak wilt research. Lake States Timber Digest 6. 1952, nr. 11, p. 5, 10.

Levy, M., RTA contributes $ 2,500 to fund of Oak Wilt Research Committee, further study being made towards eventual control and eradication of disease. Cross Tie Bull. 33. 1952, 9—11.

Lindgren, R. M., Permeability of southern pine as affected by mold and other fungus infection. [Trichoderma viride] Proc. amer. Wood Preserv.' Assoc. 1952, 11 p., 3 fig.

McLaughlin, W. D., and **True, R. P.,** The effects of temperature and humidity on the longevity of conidia of Chalara quercina. Phytopathology 42. 1952, 470.

Marsden, D. H., Quick action may save elms. Res. in Rev. (Massachus.) 1. 1952, nr. 2, p. 14—15.

Mezzetti, A., Osservazioni sulla morfologia e sulla tassonomia del Gyroceras celtidis (Biv.) Mont. et Ces. Boll. Staz. Pat. veg., Roma, 8 (ser. 3) (1950). 1952, 125—135, 6 fig., 2 tab.

Morris, C. L., The spread of oak wilt and progress of related studies. Pennsylv. Forests, Waters 4. 1952, 33, 47.

Morris, C. L., and **Fergus, C. L.,** Observations on the production of mycelial mats of the oak wilt fungus in Pennsylvania. [Chalara quercina] Phytopathology 42. 1952, 681—682, 1 fig.

Müller, Rindentod an Jungpappeln im Frühjahr 1952. [Dothichiza populea] Allg. Forstztschr. 7. 1952, 294—295.

Palm, B., A die-back disease of Metasequoia. [Botrytis cinerea] Bot. Notiser, Lund, H. 4. 1952, 441.

Patton, R. F., Needle droop of red pine. [Pullularia] Phytopathology 42. 1952, 16 (Abstr.).

Schönhar, S., Untersuchungen über den Erreger des Pappelrindentodes. [Dothichiza populea] Allg. Forstztschr. 7. 1952, 509—512, 4 Abb.

Shenefelt, R. D., Possible vectors of oak wilt disease. [insects] Proc. amer. Assoc. econ. Entomologists, North Centr. States Br., 7. 1952, 89—90.

Shields, I. J., Oak wilt survey in Kansas. [Chalara quercina on Quercus velutina] Plant Dis. Reptr. 36. 1952, 68.

Smith, N. F., Oak wilt in Michigan. [Chalara quercina] Michigan Conserv., East Lansing, 21. 1952, nr. 3, p. 29—31.

Sprangers, A. A. C., Measures to prevent the transmission of the American oak disease to Europe. [Chalara quercina] Houthandel (Nederland) 4. 1952, 409—410.

Strong, F. C., The oak wilt disease in Michigan. Michigan Forestry, Park Assoc. Ann. Meetg. 26. 1952, 14—16.

Taylor, J. J., Oak wilt-location is the payoff. Pennsylv. Forests, Waters 4. 1952, 86—87.

Templeton, L., Our enemy the oak wilt. [Chalara quercina] Harper's Mag. 205. 1952, nr. 1230, p. 96—97.

True, R. P., Staley, J. M., Leach, J. G., Barnett, H. L., and **Dorsey, C. K.,** Liberation of spores from natural reservoirs facilitates overland spread of oak wilt. [Chalara quercina] Phytopathology 42. 1952, 476.

Van Vloten, H., Evidence of host-parasite relations by experiments with Phomopsis pseudotsugae Wilson. Scot. Forestry 6. 1952, nr. 2, p. 38—46, 11 fig.

Weaver, L. O., and **Jeffers, W. F.,** Oak wilt in Western Maryland. [Chalara quercina] Plant Dis. Reptr. 36. 1952, 28.

Went, J. C., (Oak wilt in the United States.) Nederl. Boschbouwtijdschr. 24. 1952, 275—278.

White, I., and **Wolf, F. T.,** Preliminary report on some nutritional requirements of Chalara quercina. Phytopathology 42. 1952, 288 (Abstr.).

White, R., Oak wilt could be more than a lumberman's problem. Ohio Conserv. Bull. 11 (i. e. 16). 1952, nr. 3, p. 20—21, 31.

Wright, E., and **Graham, D. P.,** Surveying for pole blight. [Leptographium] J. Forestry 50. 1952, 680—682, 1 tab. geogr.

Young, H. C., Abstracts of reports on oak wilt (Chalara quercina) studies by various agencies. Trees (Cleveland) 12. 1952, nr. 2, p. 6—7, 24—25, 30.

Young, H. C., and **Spilker, O.,** Longevity of disease organism getting attention in oak wilt project. Ohio Farm, Home Res. 37. 1952, 97—98.

Zhurawlew, I. I., (New method of [tree] seed disinfection.) [Fusarium chiefly] Lesnoe Khoz. (USSR) 5. 1952, nr. 7, p. 52—54.

Zhurawlew, I. I., (Die Virulenz der das Sämlingssterben der Kiefer verursachenden Fusarien.) Mikrobiologiia, Moskwa, 21. 1952, 588—593.

Zycha, H., Die Phomopsis-Krankheit von Douglasie und Japanlärche. Forstwiss. Centralbl. 71. 1952, 65—79, 10 Abb.

Losses and gains with oak wilt in '51. Wood Working Digest, Wheaton (Illinois), 54. 1952, 175—181.

Sooty bark disease of sycamore. Cryptostroma corticale. Forestry Commission, London, Leafl. 30. 1952, 7 p., 2 tab. col.

Varia

Fowler, M. E., Aircraft scouting for pole blight and oak wilt. [Leptographium, Endoconidiophora fagacearum] J. Forestry 50. 1952, 191—195, 1 tab. geogr.

Gravatt, F. G., La enfermedad del chancro cortical en los castañares [Castanea] y robledales [Quercus] de Europa en 1951. Montes, Madrid, 8. 1952, 323—328.

Hubert, E. E., and **Ferrell, W. K.,** Radioisotope tests of translocation in artificially infected Pinus monticola Doug. [Leptographium sp., Armillaria mellea] Phytopathology 42. 1952, 515 (Abstr.).

Jacquiot, C., Maladie de la suie du sycomore (Acer pseudoplatanus L.). Étude anatomique du bois. Bull. Soc. mycol. France 67 (1951). 1952, 436—437, 4 fig.

Josifović, M., (Trametes radiciperda and Dasyscypha willkommii in some forests of Slovenia.) (Bull. Coll. Forestry Univ. Belgrad 5. 1952, 209—219.

Magdorf, R., Ein anonymer Schädling an der Roteiche. Allg. Forstztschr. 7. 1952, 320—321, 3 Abb.

Moreau, C., et **Moreau, M.,** La »sui« des sycomores à Paris. [Cryptostroma corticale, Eutypa acharii] Bull. Soc. mycol. France 67 (1951). 1952, 404—418, 3 fig.

Roth, E. R., Eradication and thinning tests for Nectria and Strumella canker control in Maryland. Phytopathology 42. 1952, 287 (Abstr.).

Vajda, Z. J., (Control of the drying up of elm.) Šumarski List, Zagreb, 76. 1952, 326—335.

Warcup, J. H., Effect of partial sterilization by steam or formalin on damping-off of Sitka spruce. [Pythium, Fusarium] Trans. brit. mycol. Soc. 35. 1952, 248—262, 1 fig., 1 tab.

Phanerogamae

Anderson, R. L., Mistletoes don't all mean romance; some cause witches broom. [on Picea mariana] Minnesota Farm, Home Sci. 10. 1952, 20.

Buckland, D. C., and **Marples, E. G.,** Management of western hemlock [Tsuga heterophylla] infested with dwarf mistletoe [Arceuthobium campy-lopodum]. Brit. Columbia Lumberman, Vancouver, 36. 1952, nr. 5, p. 50—51, 136, 138, 140.

Hawksworth, F. G., Unusual hosts for two Southwestern mistletoes. [Arceuthobium douglasii on Abies concolor] Plant Dis. Reptr. 36. 1952, 246.

König, E. Mistelwurzeln im Holz. Norddtsch. Holzw. 6. 1952, nr. 58, S. 3.

Unkräuter
Weeds — Mauvaises herbes

Brooks, R. O., Chemical weeding report for 1951. [in forest tree nurseries] Pennsylv. Forests, Waters 4. 1952, 60—61.

Chaiken, L. E., The control of weed trees in forest management. Proc. south. Weed Conf. 5. 1952, 135—136.

Clifford, E. D., Use of 2, 4-D to control weeds in conifer nurseries. US Forest Serv. Tree Planters' Notes 12. 1952, 6.

Curtis, O. F., Chemical weed control in nursery tree rows. Proc. amer. Soc. hortic. Sci. 60. 1952, 109—116.

Eglīte, A., (Anwendung einiger Chemikalien zur Bekämpfung der Unkräuter und zur Bodenverbesserung in der Forstwirtschaft.) LPSR ZA Vēstis 1949, nr. 2, p. 31—52.

Fischer, H., Unkrautbekämpfung in der Baumschule mit chemischen Mitteln. Dtsch. Baumschule 1952, H. 3, S. 64—68.

Hesmer, H., Die Bekämpfung von Unhölzern und Unkräutern im Forstbetrieb mit dem Wuchsstoffpräparat Tributon. Höfchen-Briefe 5. 1952, 1—10, 6 Abb.

Hesmer, H., Wuchsstoffbekämpfung von Unhölzern und Forstunkräutern. Forstarchiv 23. 1952, 41—45, 5 Abb.

Holmes, G. D., Chemical control of woody weed growth. Great Brit. Forestry Comn. Rept. Forest Res. 1950/51. 1952, 72.

Holmes, G. D., and **Ivens, G. W.,** Chemical control of weeds in forest nursery seedbeds. Forest Rec. (Forestry Commission, London) 13. 1952, 31 p., 9 fig.

Kopitke, J. C., and **Langford, J. K. R.,** Weed control with methyl bromide. [in forest tree nurseries] J. Forestry 50. 1952, 208—211.

Lebendig, K., Hormonspritzung in der Forstwirtschaft. Hannov. land-, forstw. Ztg. 105. 1952, 819, 1 Abb.

Maki, T. E., and **Allen, R. M.,** Use of allyl alcohol for weed control in forest nurseries. J. Forestry 50. 1952, 470—471.

Mařan, B., and **Lhota, O.,** (Weeds—the most dangerous enemy in planting and afforestation of soilconserving forest belts.) Sborník českosl. Akad. Zeměd. (Ann. Acad. tchécosl. Agric.), Praha, 25. 1952, 39—54.

Paludan, F., (Practical experiences in regard to the use of mineral oil against weeds in spruce and pine nurseries.) Skogen, Stockholm, 39. 1952, nr. 1, p. 9—11.

Reginster, P., L'emploi de dérivés du petrole comme désherbants sélectifs dans les pépinières forestières. Bull. Soc. R. forest. Belg. 59. 1952, 195—200.

Srivastava, T. N., The application of selective herbicides to forestry practice. Indian Forester, Dehra Dun, 78. 1952, 11—25.

Stoeckeler, J. H., Control of weeds in forest nurseries with mineral spirits. Advances Chem. Ser. 7. 1952, 84—90.

d. Tierische Feinde
Animal parasites — Parasites animaux

Arthropoda: Hexapoda, Arachnoidea

Allgemeiner Teil
General part — Partie générale

Adrianowa, N. S., Wrednye nasekomye odnoletnich gnesdowych posewow duba w uslowijach trassy Kamyschin-Stalingrad-Stepnoj. (Schädliche Insekten einjähriger Eichensämlinge aus Nemyschin-Stalingrad-Stepnoj.) Zool. Zh. (Zool. J.) 31. 1952, 33—43.

Anchierri et **Grivaz,** Poudrage insecticide dans la peupleraie domaniale de Chautagne. Rev. forest. franç., Nancy, 11. 1952, 752—758.

Androić, M., Appearence of some more important insect pests in the forests of the people's republic of Croatia in 1950—1951. Saschtita Bilja (Plant Prot.), Beograd, nr. 11. 1952, 13—20.

Arnoldi, K. W., K wyjasneniju sonalnych sakonomernostej obrasowanija nowych gruppirowok nasekomych i saselenija lesoposadok kserofilnymi widami pri stepnom lesoraswedenii. (Zur Erklärung zonaler Gesetzmäßigkeiten bei der Bildung neuer Gruppierungen von Insekten und der Besiedlung der Waldanpflanzungen mit xerophylen Arten beim Steppenwaldbau.) Zool. Zh. (Zool. J.) 31. 1952, 329—346.

Bakke, A., (Pests of spruce cones and spruce seeds.) Tidsskr. Skogbruk, Oslo, 60. 1952, 214—217.

Beal, J. A., Forest insects of the Southeast: with special reference to species occurring in the Piedmont plateau of North Carolina. Bull. Duke Univ. School Forestry 14. 1952, 168.

Beal, J. A., Role of the States and private timber owners in cooperative forest pest control. J. Forestry 50. 1952, 859—861.

Blais, J. R., Borer control in jackpine and spruce logs. Log Book Thunder Bay Timber Operators Assoc. (Canada) 3. 1952, nr. 6, p. 4.

Bodenheimer, S., (Ecological aspects of forest entomology.) La-Yaaran (hebr.) 2. 1952, 57—60.

Brimblecombe, A. R., The role of entomology in the practice of forestry. Austr. Timber J. 18. 1952, 830, 833, 834, 836, 838.

Davis, J. J., Fireplace logs, an annoying source of insects. Pest Control 20. 1952, nr. 10, p. 19—20.

Davis, J. J., Protecting shade trees and shrubs against insects. Purdue Univ. Agric. Ext. Bull. 168. 1952, 32 p.

De Leon, D., Insects associated with Sequoia sempervirens and Sequoia gigantea in California. Pan-Pacific. Ent. 28. 1952, 75—91.

Dowden, Ph. B., The importance of coordinating applied control and natural control of forest insects. J. econ. Ent. 45. 1952, 481—483.

Duiven, J. M., (Leaf miners.) Levende Natuur, Amsterdam, 55. 1952, 22—31.

Elton, E. T. G., Overzicht der beschikbare gegevens over insectenplagen in onze bossen en andere houtopstanden in het jaar 1950. (Übersicht über die verfügbaren Angaben über die Insektenkalamitäten in unseren Wäldern und übrigen Baumbeständen im Jahre 1950.) Com. Bestud., Bestrijd. Insectenplagen Bossen Meded. nr. 22. [1952], 12 p.

Elton, E. T. G., en **Blankwaardt, H. F. H.,** Overzicht der beschikbare gegevens over insectenplagen in onze bossen en andere houtopstanden in het jaar 1951. (A survey of the available data on insect pests in forests and other ligneous growths in the Netherlands in 1951.) Com. Bestud., Bestrijd. Insectenplagen Bossen Meded. nr. 23. [1952], 13 p.

Gäbler, H., Schädliche und nützliche Insekten des Waldes. Neumann Verlag, Radebeul/Berlin 1952. 2. Aufl., 96 S., zahlr. Abb.

Gößwald, K., Über die ökologische Bereinigung von Schädlingsplagen im Walde mit Hilfe der Roten Waldameise. Naturwissenschaften 39. 1952, 97—99.

Goidànich, A., (Biological forest protection.) [chiefly insect pests] Ricerca sci., Roma, 22. 1952, 161—168.

Golowianke, Z. S., (Secondary predators of pine in the Drepropetrovsk sands.) Les i Step' (USSR) 4. 1952, nr. 8, p. 33—36.

Gothe, H., Die Rote Waldameise im Dienste der Waldhygiene. (Zugleich Besprechung des gleichnamigen Buches von K. Gößwald.) Allg. Forstztschr. 7. 1952, 178—179.

Graham, S. A., Forest entomologist — forester or entomologist? J. econ. Ent. 45. 1952, 900—902.

Graham, S. A., Forest entomology. McGraw-Hill Book Comp., Inc., New York/Toronto/London 1952. 3. ed., XII + 351 p., 86 fig.

Hammerle, W. C., The forest insect problem in southern pine. Forest Farmer 11. 1952, nr. 7, p. 8—9, 13, 16.

Hanson, H. S., Forest entomology. Great Brit. Forestry Comn. Rept. Forest Res. 1950/51. 1952, 98—107.

Heidenreich, E., Das Gamma-Hexachlorcyclohexan im Forst. Ztschr. angew. Ent. 33. 1952, 321—328.

Jahn, E., Forstschädlingsauftreten in Tirol 1945—1952. Anz. Schädl.kunde 25. 1952, 148—149.

Katsura, S., (Insect pests to forest and protection of wild birds.) Nōrin Jihō (agric., Forestry Bull.) (Japan) 11. 1952, nr. 4, p. 15—17.

Keen, F. P., Insect enemies of western forests. US Dept. Agric. Misc. Publ. nr. 273 (rev.). 1952, 280 p., 111 fig.

Kelsey, J. M., New Zealand grown Pinus and insect attack. New Zealand Entomologist 1. 1952, nr. 2, p. 4—5.

Koch, M., Neues Verfahren zur Bekämpfung waldbaulicher Schädlinge. Ztschr. Wiener ent. Ges. 36 (1951). 1952, 178—181.

Kowal, R. J., and **Coyne, J. F.,** Forest insect problems in the South. Proc. Assoc. south. agric. Workers 49. 1952, 91.

Laidlaw, W. B. R., Silvicultural causes and prevention of forest insect epidemics. Quart. J. Forestry (England) 46. 1952, 16—22.

Lewis, G. T., Elm diseases. Prof. Gardr. 4. 1952, 134—135.

Maksimović, M., (Forest insect pests in 1950 and 1951 in the P. R. of Serbia.) Saschtita Bilja (Plant Prot.), Beograd, nr. 9. 1952, 70—82.

Matkowskij, S. T., (Control of soil pests of seedlings of oak and other tree species.) [soil insects controlled by benzenehexachloride] Les i Step' (USSR) 5. 1952, 82—83.

Qadri, M. A. H., Forest protection with biological control in Pakistan. Pakistan J. Forestry 2. 1952, 244—250.

Qadri, M. A. H., Notes on the habits and biology of some of the unknown and little known forest pests of north western Himalayas. I. Pakistan J. Forestry 2. 1952, 35—42.

Rudnew, D. F., Primenenie rastworow DDT i GChZG w neftjanych maslach dlja unitschtoshenija wreditelej sheludej. (Verwendung von Lösungen von DDT und GChZG in Erdöl zur Vernichtung von Eichelschädlingen.) Les i Step' (USSR) 4. nr. 6, p. 35—38.

Rybatschek, P. A., Metody borby s wrednymi nasekomymi w lesopolosach. (Methoden zur Bekämpfung der schädlichen Insekten in Waldstreifen.) Lesnoe Khoz. (USSR) 5. 1952, nr. 6, p. 83.

Schimitschek, E., Probleme des Forstschutzes im Wienerwald, Auwald der Donauauen bei Wien, Marchfeld, den Flugerdeaufforstungen im Wiener Becken und den Wohlfahrtsaufforstungen im Seewinkel des Burgenlandes. Österr. Viertelj.schr. Forstwesen 93. 1952, 174—199.

Schlatter, A. J., Schädlinge bedrohen unsere Wälder. Wald u. Holz (Schweiz) 34. 1952, 28—33.

Schmidt, H. W., Der Kampf gegen forstschädliche Insekten. Unser Wald 5. 1952, Nr. 9, S. 12—13.

Shackleton, P., Feeding on our forests. Family Herald, weekly Star (Canada) 83. 1952, nr. 24, p. 3, 17.

Sinreich, A., Über die Wirkung neuzeitlicher Insektizide auf die Gliedertiere bei Forstschädlingsbekämpfung. Mitt. forstl. Bundes-Vers.anst. Mariabrunn 48. 1952, Teil 1, S. 153—165.

Šlander, J., Ne lovna debla — temveč lovna drevesa. (Keine Fangstämme, sondern Fangbäume.) Gozdarski Vijesnik, Ljubljana, 10. 1952, 1—9.

Smith, N. F., Forest pest detection. Michigan Conserv., East Lansing, 21. 1952, nr. 5, p. 11—14.

Stoeckeler, J. H., Insect control through forest management. Tree Tips Febr. 1952, 2.

Thalenhorst, W., Mit dem Hubschrauber gegen Forstschädlinge. Orion 7. 1952, 371—372.

Tomlinson, W. E., Some insect pests of New England trees. Proc. nat. Shade Tree Conf. 28. 1952, 85—88.

Vietinghoff-Riesch, A. v., Bildliche Darstellung der Vertilgerkreise einiger forstlicher Großschädlinge unter den Insekten. Trans. IXth int. Congr. Ent., Amsterdam, 1 (1951). 1952, 694—695.

Vietinghoff-Riesch, A. v., Die Bedeutung des Schwarzwildes bei Gradationen forstschädlicher Insekten. Forstwiss. Centralbl. 71. 1952, 29—47, 3 Abb., 2 Kart.

Vietinghoff-Riesch, A. v., Vertilgerkreise einiger forstlicher Großschädlinge. In: Vorträge der Hochschulwoche Hann.-Münden 1951 (J. D. Sauerländer's Verlag, Frankfurt/M. 1952), S. 62.

Vité, J. P., Zur Frage der Einschleppung von Forstschädlingen. Holz-Zentralbl. 78. 1952, Nr. 142.

Vivani, W., (Poplar insects.) Inform. Fitopat., Bologna, 2. 1952, 97—101, 124—128.

Wellenstein, G., Chemische und biologische Schädlingsbekämpfung. Forstarchiv 23. 1952, 69—70.

Aantastingen van de lariks. (Insektenschaden an der Lärche.) Tijdschr. nederl. Heidemaatsch. 63. 1952, 186.

Important tree pests of the Northeast. (Edit. by Committee on Tree Pests Leaflets, New England Section, Society of American Foresters.) Evans Printing Comp., Concord (New Hampshire) 1952. 2. ed., 191 p., 82 fig.

Report of the Committee for the Study and Control of Insect Pests in Forests, series 1952, nr. 1. Tijdschr. nederl. Heidemaatsch. 63. 1952, 21.

Heteroptera

Al-Tikrity, A. B., The biology of the boxelder bug [Leptocoris trivittatus] in Cache Valley. Proc. Utah Acad. Sci., Arts, Let. 29. 1952, 47 (Abstr.).

Knowlton, G. F., Controlling the boxelder bug. [Leptocoris trivittatus] Utah State agric. Coll. Ext. Circ. 163. 1952, 2 p.

Schmidt, L., Masovna pojava stjenica na lipami i njihovo suzbijanje. (Massenauftreten von Wanzen an Linden und ihre Bekämpfung.) Šumarski List, Zagreb, 76. 1952, 170—174.

Tinker, M. E., The seasonal behavior and ecology of the boxelder bug Leptocoris trivittatus in Minnesota. Ecology 33. 1952, 407—414.

Homoptera

Balch, R. E., Studies of the balsam woolly aphid, Adelges piceae (Ratz.) and its effects on balsam fir, Abies balsamea (L.) Mill. Canada Dept. Agric., Ottawa, Publ. 867. 1952, 76 p., 47 fig.

Boratynski, K. L., Matsucoccus pini (Green, 1925) (Homoptera, Coccoidea: Margarodidae): bionomics and external anatomy with reference to the variability of some taxonomic characters. Trans. R. ent. Soc. London 103. 1952, 285—326.

Bussart, J. E., Pine and juniper scale. [Phenacaspis pinifoliae, Diaspis carueli] Arborist's News 17. 1952, 6—7.

Caldwell, J. S., Facts or fiction: Chermes alni L. (Psyllidae). Ohio J. Sci. 52. 1952, 286.

Crooke, M., Adelges attacking Japanese and hybrid larches. Forest Rec., London, 17. 1952, 20 p.

Flanders, St. E., A parasite of the European elm scale established in California. [Gossyparia spuria] J. econ. Ent. 45. 1952, 1078—1079.

Hussey, N. W., A contribution to the bionomics of the green spruce aphid (Neomyzaphis abietina Walker). Scot. Forestry 6. 1952, 121—130.

Komárek, J., Odumírání jasanů v souvislosti s Eulecanium coryli a účinkem mrazů. (Das Absterben der Au-Eschen im Zusammenhang mit Eulecanium coryli und Frosteinfluß.) Zool., ent. Listy (Folia zool., ent.), Brno (CSR), 1. 1952, 219—222, 1 fig.

Kovačević, Ž., (Fir tree louse, Dreyfusia nüsslini.) Šumarski List, Zagreb, 76. 1952, 413—416.

Olalquiaga Faure, G., El pulgon de los pinos en Chile. Rev. Forest. Chilena 2. 1952, 91—92.

Pintera, A., Hoplocallis ruperti g. n., sp. n., nová mšice na dubu. (Hoplocallis ruperti g. n., sp. n., new aphid on oak.) Zool., ent. Listy (Folia zool., ent.), Brno (CSR), 1. 1952, 151-157, 2 fig.

Roberti, D., L'Haematoloma dorsatum (Germ.) (Hemiptera — Homoptera — Cercopidae) dannoso al pino in Abruzzo. Boll. Lab. Ent. Agr. »Filippo Silvestri«, Portici, XI. 1952, 216—219, 2 fig.

Schimitschek, E., Ein neuer entomophager Pilz an Dreyfusia Nüsslini C. B. Anz. Schädl.kunde 25. 1952, 115—116, 1 Abb.

Schimitschek, E., Ursachen von Massenvermehrungen der Tannentrieblaus Dreyfusia Nüsslini C. B. Wetter u. Leben 4. 1952, Sdr.-H. 1, 7 S.

Schimitschek, E., Zum Massenauftreten der Tannentrieblaus Dreyfusia Nüsslini C. B. in Österreich. Land-, forstw. Gutsbetrieb 1952, Nr. 7.

Schmutterer, H., Zur Kenntnis der Buchenblattlaus Phyllaphis fagi (L.) (Homoptera, Aphidoidea), einer wichtigen Honigtauerzeugerin auf Buche. Anz. Schädl.kunde 25. 1952, 1—5, 7 Abb.

Schmutterer, H., Zur Lebensweise der Nadelholz-Diaspidinen (Homoptera, Coccoïdea, Diaspididae, Diaspidinae) und ihrer Parasiten in den Nadelwäldern Frankens. Ztschr. angew. Ent. 33. 1952, 111—136, 11 Abb.

Tapia, E. A., El pulgón del álamo, Pterocomma populea Kalt. Argent. Dir. Gen. Invest. Agric. IDIA 5. 1952, nr. 52, p. 13.

Thysanoptera

Vité, J. P., Merkmale und Verlauf des Lärchenwipfelsterbens. [Taeniothrips laricivorus] Holz-Zentralbl. 78. 1952, 1983—1984.

Vité, J. P., Schadauftreten des Lärchenblasenfußes, Taeniothrips laricivorus Krat., auch im Sauerland. Forst u. Holz 7. 1952, 5—8.

Vité, J. P., Verbreitung und Formen des »Lärchenwipfelsterbens« in Westdeutschland. [Taeniothrips laricivorus] Forstarchiv 23. 1952, 225—229, 7 Abb.

Coleoptera

(Siehe auch — see also — voyez aussi p. 63.)

Anitschkowa, P. G., (Measures for controlling the acorn weevil (Curculio spp.) as a means of saving the acorn harvest.) Dokl. Vsesoiuzn. Akad. Sel'skohoz. Nauk im. V. I. Lenina (Proc. Lenin Acad. agric. Sci.) 17. 1952, nr. 7, p. 35—36.

Balachowsky, A. S., Sur la présence de Ips acuminatus Gyll. (Col. Scolytoidea) dans la forêt de Rambouillet. Rev. Path. vég., Ent. agric. France 31. 1952, 134—135.

Becker, G., Ausdehnung und Ablauf der Dendroctonus-Kalamität in Guatemala. Ztschr. angew. Ent. 33. 1952, 186—209, 10 Abb.

Becker, G., Die Dendroctonus-Kalamität in Guatemala. Trans. IXth int. Congr. Ent., Amsterdam, 1 (1951). 1952, 682—687, 3 fig.

Beier-Petersen, B., Hylesinus micans — Artens udbredelse og en oversigt over dens optraeden i Danmark. (Die Verbreitung der Arten und eine Übersicht über das Auftreten in Dänemark.) Dansk Skovforen. Tidsskr. 1952, 299—322.

Berezina, V. M., (June beetle and its control in steppe silviculture.) [Melolontha] Sowjetsk. Agron., Moskwa, 10. 1952, nr. 6, p. 80—81.

Bernhard, Achtet auf den Rüsselkäfer! Landw. Ztschr. Nord-Rheinprov. 119. 1952, 514—515, 2 Abb.

Bombosch, S., Über Änderungen der physiologischen Leistungen von Ips typographus L. bei einer ungestört ablaufenden Massenvermehrung. Trans. IXth int. Congr. Ent., Amsterdam, 1 (1951). 1952, 675—678.

Brammanis, L., Bidrag till kännedomen om för skogen skadliga bladhorningar i Sverige. I. Trädgårdsborren, Phyllopertha horticola L. (Beiträge zur Kenntnis der forstschädlichen Lamellicornien Schwedens. I. Der Gartenlaubkäfer, Phyllopertha horticola L.) Meddel. Stat. Skogsforskn.inst. (Mitt. forstl. Forsch.anst.), Stockholm, 41. 1952, nr. 2, p. 1—59.

Brauns, A., Über den Borkenkäfer (Ipidae). Norddtsch. Holzw. 6. 1952, Nr. 7, S. 6—7.

Burgdörfer, H., Die Waldmaikäferbekämpfung im Bienwald 1951. Allg. Forstztschr. 7. 1952, 124—127.

Burgdörfer, H., Zur Maikäferbekämpfung. Eine Stellungnahme zu: »Die Waldmaikäferbekämpfung im Bienwald 1951« des Fm. H. Burgdörfer, Kandel, in Heft Nr. 11. Allg. Forstztschr. 7. 1952, 177—178.

Ceballos, G., e Zarco, E., Sobre el desarollo y combate en España de la Liparis monacha, en masas de Pinus silvestris de las Cordilleras de la Meseta Central. Trans. IXth int. Congr. Ent., Amsterdam, 1 (1951). 1952, 705—707.

Copien, Schäden durch Graurüßler in Kiefernkulturen. Allg. Forstztschr. 7. 1952, 152.

Dame, F., Der Buchenprachtkäfer, ein besorgniserregender Schädling. [Agrilus viridis] Landw. Wochenbl. Westf., Lippe 109 A. 1952, 1357—1358, 5 Abb.

Dominik, J., Próba zwalczania pedrakow guniakaczerwczyka za pomoca preparatów chemicznych. (Versuch zur Bekämpfung der Engerlinge des Sonnenwendkäfers Rhizotrogus solsticialis L. mit Hilfe chemischer Präparate.) Sylwan, Lwów i Warszawa, 96. 1952, 111—116.

Filatova, T. I., (Control of May beetle larvae in forest nurseries.) Les i Step' (USSR) 4. 1952, nr. 10, p. 71—72.

Francke-Grosmann, H., Über die Ambrosiazucht der beiden Kiefernborkenkäfer Myelophilus minor Htg. und Ips acuminatus Gyll. Meddel. Stat. Skogsforskn.-inst. (Mitt. forstl. Forsch.anst.), Stockholm, 41. 1952, nr. 6, p. 1—52, 23 fig.

Głowacki, J., Wstepne wyniki obserwacji nad zerdzianka sosnowka w latach 1949—1950 na terenie nadlesnictwa Piekna Wieś. (Vorläufige Ergebnisse der Beobachtungen an Monochamus galloprovincialis Oliv. in den Jahren 1949—1950 in dem Gebiet des Forstamts Piekna Wieś.) Sylwan, Lwów i Warszawa, 96. 1952, 176—184.

Graham, K., The bark beetle problem in Douglas fir of the interior. [Dendroctonus pseudotsuga] Brit. Columbia Lumberman, Vancouver, 36. 1952, nr. 7, p. 42.

Grinols, W., Beetle infestation threat to Inland Empire forests; tree harvest to be rushed. [Dendroctonus engelmanni] Mississippi Valley Lumberman 84. 1952, nr. 11, p. 6—8.

Grollnigg, Borkenkäfergefahr in Kärnten. Kärtner Bauer (Oesterr.) 101. 1952, 796—797.

Haarløv, N., og Beier-Petersen, B., Temperaturmålinger i bark og ved af Sitkagran (Picea sitchensis). Med saerlig henblik på temperaturen i gangsystemer af Hylesinus (Dendroctonus) micans. Forstl. Fors.vaesen Danmark 21. 1952, 43—91.

Hadley jr., B. L., Lead arsenate sprays to control white pine weevil (Pissodes strobi). Pennsylv. Forests, Waters 4. 1952, 10—12, 23.

Hadlington, P., Forest insects and wood-destroying insects of New South Wales. VI. New South Wales Forestry Comn., Div. Wood Technol., Techn. Notes 5 (1951). 1952, 7—9.

Heddergott, Pflanzenschutzlicher Großeinsatz in den Rocky Mountains. [Engelmann-Fichtenborkenkäfer] Gesunde Pflanzen 4. 1952, 219—222, 2 Abb.

Hennecke, Zur Maikäferbekämpfung mit Motorverstäubern. Allg. Forstztschr. 7. 1952, 373—374.

Heqvist, K. J., (The pine cone weevil [Pissodes validirostris], a pest of pine cones.) Skogen, Stockholm, 39. 1952, 101—102.

Husson, R., Stauder, F., et **Daum, J.,** Sur la présence d'Agrilus viridis L. (Coleoptera, Buprestidae) dans les forêts de la Sarre. Ann. Univ. Saraviensis 1. 1952, 250—255, 2 tab.

Jørgensen, E., og **Petersen, B. B.,** Mere om Fomes annosus og Hylesinus piniperda. (Weiteres über Fomes annosus und Hylesinus piniperda.) Dansk Skovforen. Tidsskr. 37. 1952, 213—218.

Juutinen, P., Eine Zuchtmethode für fichtenrindenbewohnende Käferlarven. Suomen Hyönteistiet. Aikakausk. (Ann. ent. fenn.), Helsinki, 18. 1952, 41—46.

Kamp, H. J., Ratschläge für das Auszeichnen von »Buchenprachtkäferbuchen«. [Agrilus viridis] Holz-Zentralbl. 78. 1952, 1451.

Kamp, H. J., Zur Biologie, Epidemiologie und Bekämpfung des Buchenprachtkäfers (Agrilus viridis L.). Mitt. württ. forstl. Vers.anst., Stuttgart, 9. 1952, H. 1, 42 S., 17 Abb.

Keen, F. P., Bark beetles in forests. US Dept. Agric. Yearb. Agric. 1952, 688—694.

Kinghorn, J. M., and **Webb, W.,** Chemical control of Ambrosia beetles in British Columbia. Woodland Rev., Gardenvale (Que.), Jan. 1952, 22.

Klauß, Die Maikäferbekämpfung 1952. Saarl. Bauernbl. 6. 1952, 127, 7 Abb.

Knowlton, G. F., Elm leaf beetle [Galerucella xanthomelaena] control. Utah State agric. Coll. Circ. 173. 1952, 2 p.

König, E., Das Buchenprachtkäfer-Problem. [Agrilus viridis] Norddtsch. Holzw. 6. 1952, Nr. 5, S. 1—2.

König, E., Der große Eichenbock. [Cerambyx cerdo, C. scopolii, Prionus coriarius] Norddtsch. Holzw. 6. 1952, Nr. 75, S. 3.

Kovačević, Ž., Proučavanje ekologije smrekova pisara (Ips typographus L.) i pokusi suzbijanja kemijskim sredstvima. (Ökologie des Buchdruckers (Ips typographus L.) und Versuche seiner Bekämpfung mit chemischen Mitteln.) Glasnik Šumske Pokuse (Ann. Exp. forest.) Zagreb, 10. 1952, 63—104, 9 fig.

Kudler, J., Hromadný skodlivý výskyt tesarika Saperda carcharias L. (Massenvermehrung von Saperda carcharias L. auf Aspen im Gebiet Hronov.) Lesn. Práce (Oeuvre Forest.), Pisek, 31. 1952, 122—125.

Kutschinskij, A. F., Ustojtschiwostj kultur barchata amurskogo protiw litschinok majskogo chruschtscha. (Die Widerstandskraft der Kulturen von Phellodendron amurense gegen Engerlinge.) Lesnoe Khoz. (USSR) 5. 1952, 93.

Kusnezow, W. I., (Pine planting in deep furrows as a method of protection against May beetles.) [Melolontha] Lesnoe Khoz. (USSR) 5. 1952, 78—79.

Lebedewa, L. I., Chimitscheskaja borba s shukami majskogo chruschtscha. (Chemische Bekämpfung des Maikäfers.) Lesnoe Khoz. (USSR) 5. 1952, 79—81.

Lebedewa, L. I., Dusty DDT i GChZG w borbe s litschinkami chruschtschej. (DDT und GChZG — Bestäubungsmittel im Kampf gegen die Käferlarven.) Les i Step' (USSR) 4. 1952, 79—81.

Lekander, B., En ny metod för bekämpning av granbarkborren, Ips typographus L. (Eine neue Methode zur Bekämpfung von Ips typographus L.) Meddel. Stat. Skogsforskn.inst. (Mitt. forstl. Forsch.anst.), Stockholm, 41. 1952, nr. 3, p. 1—31, 11 fig. — Trans. IXth Congr. Ent., Amsterdam, 1 (1951). 1952, 679—681, 2 fig.

Lewizkij, W. N., Primanka dlja priwletschenija litschinok majskogo chruschtscha. (Köder für das Anlocken der Larven des Maikäfers.) Lesnoe Khoz. (USSR) 5. 1952, 81.

Martínek, V., Pokusy s bojem proti kurovci Ips typographus L. poprasováním lapaku insekticidy. (Versuche zur Bekämpfung des Fichtenborkenkäfers durch Bestäuben der Fangbäume mit Insektiziden.) Lesn. Práce (Oeuvre Forest.), Pisek, 31. 1952, 17—26.

Martinez Andreu, A., El picudo negro del plátano (Cosmopolites sordidus Germar). [Cuba] Almanaque agríc. nac. (Cuba) 1952, 93—102.

Massey, C. L., Chisholm, R. D., and **Wygant, N. D.,** Ethylene dibromide for control of Black Hills beetle. J. econ. Ent. 45. 1952, 861—862.

Mathiesen, A., Über einige mit Borkenkäfern (Scolytidae) assoziierte Bläuepilze in Schweden. Oikos, København, 2. 1952, 275—308.

Mathur, R. N., Ruropoda [i. e. Uropoda] nymphs on lytid and curculionid beetles. Indian Forester, Dehra Dun, 78. 1952, 144—145.

Merker, E., Das Wetter der Jahre 1939 bis 1950 und sein Einfluß auf die Massenvermehrung des großen Fichtenborkenkäfers in Südbaden. Allg. Forst-, Jagd-Ztg. 123. 1952, 213—233, 4 Abb., 1 Landkarte; 124. 1952, 1—22, 3 Abb., 4 Landkarten.

Merker, E., und **Sattler, G.,** Biologische Beobachtungen am Fichtenbastkäfer, Hylastes cunicularius, sowie Notizen über den Dryocoetes autographus. Allg. Forst-, Jagd-Ztg. 123. 1952, 135—143, 2 Abb.

Milán, M., Kurovec smrkový na školním lesním závodě Vysoké školy zemědělské a lesnické v Brně. (Ips typographus im Versuchsforstrevier der Hochschule für Land- und Forstwirtschaft in Brünn.) Lesn. Práce (Oeuvre Forest.), Pisek, 31. 1952, 171—175.

Misezkij, J. S., Ob otwletschenii litschinok chruschtschej ot posewow sosny w lesnych pitomnikach. (Über die Ablenkung der Käferlarven von den Kiefernsaaten in Waldkämpen.) Lesnoe Khoz. (USSR) 5. 1952, 83.

Moisejew, A. E., Klubenkowye dolgonosiki — wrediteli sheltoj akazii. (Rüsselkäfer — Schädling der gelben Akazie.) [Caragana arborescens] Les i Step' (USSR) 4. 1952, 94, 95.

Moser, A., Standorte mit Gefährdung der Tanne durch Trockenheit und Ips curvidens. Allg. Forstztschr. 7. 1952, 176—177, 1 Karte.

Nikitiuk, A. I., (Predatory and parasitic insects as regulators of the damaging activity and spread of bark beetles in a coniferous forest. Communication II. Bull. Otd. Biol. Obshch. Isp. Prirody, Moskwa, 57. 1952, nr. 5, p. 40—44.

Padii, N. N., (Use of benzene hexachloride for controlling cockchafer [Melolontha] larvae in a forest nursery.) Lesnoe Khoz. (USSR) 5. 1952, nr. 8, p. 61—63.

Perry jr., J. P., Pine bark beetles of Central Mexico. Unasylva, Rom, 5. 1952, 159—165, fig.

Prisiazhnjuk, A. A., (Spanish fly (Lytta vesicatoria) and measures for controlling it.) [in forests] Les i Step' (USSR) 4. 1952, nr. 9, p. 81—82.

Pronin, G. F., Suggestions on preventing outbreaks of bark beetles in Californian pine forests. Pan-Pacific Ent. 28. 1952, 186—188.

Richter, G., Beitrag zur Engerlingsbekämpfung mit chemischen Mitteln auf Kiefernkulturen und in Kämpen. Wald 2. 1952, 105—108.

Richter, G., Der Wurzelschutz für Kiefer mit Hexa-Präparaten, ein neues Verfahren gegen Engerlingsfraß. Arch. Forstwesen 1. 1952, 71—87, 10 Abb.

Rummukainen, U., Koivun mantokuoriaisen, Scolytus ratzeburgi Jans. luontumuksesta. (On the inclination of birch sapwood borer, Scolytus ratzeburgi Jans.) Julkaisuja Metsätieteellisen Tutkimuslaitoksen (Finland) 40. 1952, nr. 8, p. 14.

Saalas, U., Einiges über Charakterarten der Käferbestände an Fichten von verschiedener Beschaffenheit. Ztschr. angew. Ent. 33. 1952, 12—18.

Sachtleben, H., Die parasitischen Hymenopteren des Fichtenborkenkäfers Ips typographus L. Beitr. Ent., Berlin, 2. 1952, 137—189.

Samide, J., Bekämpfung des »Fichtenborkenkäfers« in den Wintermonaten! Kärntner Bauer (Österr.) 101. 1952, 795—796.

Schaerffenberg, B., Die Möglichkeiten einer Maikäferbekämpfung mit Hilfe von Mykosen. Anz. Schädl.kunde 25. 1952, 166—170, 4 Abb.

Schenk, P. J., (Pine beetles.) [Myelophilus piniperda, M. minor] Zaad-, Bloem-, Bollenwereld 16. 1952, 440—441.

Schindler, U., Ein- oder zweimalige Spritzungen gegen den großen braunen Rüsselkäfer (Hylobius abietis L.)? Forst u. Holz 7. 1952, 108—111, 1 Abb.

Schindler, U., Versuche zur Prüfung von Bekämpfungsverfahren gegen den großen braunen Rüsselkäfer (Hylobius abietis L.). Allg. Forstztschr. 7. 1952, 225—227.

Schindler, U., Zur Weiterentwicklung der Abwehr des großen braunen Rüsselkäfers. Gesunde Pflanzen 4. 1952, 182—184.

Schmidt, H., Splintholzkäfer (Lyctidae), tierische Holzschädlinge. Holz als Roh-, Werkstoff 10. 1952, 297—298.

Schrötter, v., Erfahrungen über die Maikäferbekämpfung mit Motorverstäubern in Schleswig-Holstein. Allg. Forstztschr. 7. 1952, 151—152.

Steinberg, D. M., (Fundamental features of dendrophilous insect distribution in the Ural River Valley in connection with the possibility of their spreading into shelterbelts.) Trudy Akad. Nauk SSSR, Zool. Inst., 11. 1952, 111—125.

Stirtz, T., Holzbohrkäfer in Fichtenrinde. [Stephanopachys substriatus] Leder, Darmstadt, 3. 1952, 273—274.

Tomić, D., (Une étude de l'influence des temperatures élevées et l'immersion dans l'eau sur les chenilles en œufs de Liparis dispar.) (Bull. Coll. Forestry Univ. Belgrad) 5. 1952, 221—242.

Tscherepanow, A. I., Materialy k faune shukow-drwosekow Tuwinskoj awtonomnoj oblasti. (Materialien zur Fauna der Bockkäfer im autonomen Gebiet Tuwa.) Zool. Žh. (Zool. J.) 31. 1952, 276—283.

Vietinghoff-Riesch, A. v., und Vité, J. P., Zur Frage der Buchenprachtkäferschäden in Nordwestdeutschland. Holz-Zentralbl. 78. 1952, 845—847.

Vité, J. P., Auftreten des Buchenprachtkäfers (Agrilus viridis L.) im Forstamt Wolfenbüttel. Forst u. Holz 7. 1952, 80—81.

Wauthoz, V., La lutte contre l'hylobe est entrée dans sa phase décisive. Bull. Soc. R. Forest. Belg. 59. 1952, 1—14.

Wellenstein, G., Die Borkenkäferkalamität in Mitteleuropa. (Mit Lichtbildern und Film.) Trans. IXth int. Congr. Ent., Amsterdam, 1 (1951). 1952, 688-693, 1 Abb.

Wellenstein, G., Der Buchenprachtkäfer (Agrilus viridis). Landw. Wochenbl. Westf., Lippe 109A. 1952, 288.

Yanagisawa, T., (On the control of bark beetles and some injurious insects of Ezo-spruce and Todo-fir by DDT.) Rin-Go-Shiken-Hokoku (Bull. Governm. Forest Exp. Stat.) (Japan) 53. 1952, 103—116.

Zdraikowskaja, A. M., (Experiments in control of beetles [Melolontha melolontha] in the Khrenovoye scientific forest experimental farm.) Les i Step' (USSR) 4. 1952, nr. 8, p. 72—74.

Zocchi, R., (Contribution to the knowledge of forest insects. I. Cryptorrhynchus lapathi L. (Coleoptera, Curculionidae).) Boll. Ist. Ent. Univ. Bologna 18. 1952, 245—258.

Bekämpfung des Buchenprachtkäfers. Allg. Forstztschr. 7. 1952, 455—456.

Elm leaf beetle. State Univ. New York Coll. Forestry, Syracuse 1952. 4 p.

Harvest plan to check spruce beetle in Inland Empire area. [Dendroctonus engelmanni] Timberman, Portland (Oregon), 53. 1952, nr. 12, p. 96, 98, 100, 103.

Kampf dem schwarzen Nutzholz-Borkenkäfer. Mitt. dtsch. Landw.-Ges., Frankfurt/M., 67. 1952, 827.

The **large pine weevil** (Hylobius abietis). Forestry Commiss., London, Leafl. (1) rev. 1952, 8 p., 6 fig.

Maikäferbekämpfung im Grenzwald. Landw. Ztschr. Nord-Rheinprov. 119. 1952, 519, 3 Abb.

Pissodes weevils. Forestry Commiss., London, Leafl. (29). 1952, 11 p., 7 fig.

White-pine weevil (Pissodes strobi). State Univ. New York Coll. Forestry, Syracuse 1952. 4 p., fig.

Lepidoptera

Acatay, A., Ein Zedernschädling: Acalla undulana Wlsghm. Trans. IXth int. Congr. Ent., Amsterdam, 1 (1951). 1952, 708—710, 5 Abb., 1 Karte.

Angus, T. A., The aerobic bacteria associated with the eastern hemlock looper Lambdina fiscellaria (Gn.). Canad. J. Zool. 30. 1952, 208—212.

Balch, R. E., The spruce budworm [Choristoneura fumiferana] and aerial forest spraying. Canad. geogr. J. 45. 1952, 200—209.

Baynes, E. S. A., A gynandromorph of Bupalus piniaria L. Ent. Rec., J. Variation 64. 1952, 290.

Becking, J. H., Losses in new growth in plantations of Japanese larch by heavy attacks of the larch-mining moth. Nederl. Boschbouwtijdschr. 24. 1952, 329—330.

Belyea, R. M., Death and deterioration of balsam fir [Abies balsamea] weakened by spruce budworm [Choristoneura fumiferana] defoliation in Ontario. I. Notes on the seasonal history and habits of insects breeding in severely weakened and dead trees. II. An assessment of the role of associated insect species in the death of severely weakened trees. Canad. Entomologist 84. 1952, 325—335; J. Forestry 50. 1952, 729—738.

Benjamin, D. M., The jack-pine budworm, a menace to Michigan jack pine (Pinus banksiana). Choristoneura fumiferana] US Forest Serv., Lake States Forest Exp. Stat., St. Paul (Minn.), Techn. Note 376. 1952, 1 p.

Biliotti, E., Difficultés rencontreés dans la détermination des périodes d'intervention contre les processionnaires du chêne et du pin. Rev. Path. vég., Ent. agric. France 31. 1952, 115—120, 1 fig.

Blais, J. R., The relationship of the spruce budworm (Choristoneura fumiferana, Clem.) to the flowering condition of Balsam fir (Abies balsamea (L.) Mill.). Canad. J. Zool. 30. 1952, 1—29, 7 fig., 1 tab.

Brauns, A., Auftreten der Tannennadelmotte in Norddeutschland. [Argyresthia fundella, Tineidae] Holz-Zentralbl. 78. 1952, 1187—1188.

Brauns, A., Beitrag zur Biologie der Tannennadelmotte Argyresthia fundella F. R. (Tineidae Hyponomeutinae). Nachr.bl. dtsch. Pfl.schutzd., Braunschweig, 4. 1952, 178—181, 6 Abb.

Brauns, A., Zur Eichenwicklerfrage. Holz-Zentralbl. 119. 1952, 1631.

Brown, R. C., The spruce budworm. US Dept. Agric. Yearb. Agric. 1952, 683—688.

Čakar, L., (Some data about Anastatus disparis R., the egg parasite of gypsy moth.) Saschtita Bilja (Plant Prot.), Beograd, nr. 9. 1952, 13—26, 4 tab.

Dussel, J., Essais de lutte contre les processionnaires du pin maritime par les générateurs de brouillard insecticide. [Thaumaetopoea pityocampa] Phytoma, Paris, 5. 1952, nr. 37, p. 18—19, 2 fig.

Esterberg, L. K., Awiazionno-chimitscheskaja borba s schelkoprjadom-monaschenkoj w sosnowych lesach. (Chemische Bekämpfung der Nonne — Lymantria monacha L. — in Kiefernwäldern vom Flugzeug aus.) Lesnoe Khoz. (USSR) 5. 1952, nr. 5, p. 82—83.

Ferrière, Ch., Les parasites de »Lithocolletis platani« en Italie. Boll. Ist. Ent. Univ. Bologna 19. 1952, 395—404, 4 fig.

Forsslund, K. H., Aspbladsmalen. En ny skadegörare på asp. (Leucoptera sinuella, ein neuer Schädling der Aspe.) Skogen, Stockholm, 39. 1952, 67, 1 fig.

Fransen, J. J., Bestrijding van de lariksmot (Coleophora laricella Hb.) uit de lucht. (Bekämpfung von Coleophora laricella von der Luft aus.) Tijdschr. nederl. Heidemaatsch. 63. 1952, 104—108.

Götze, J., Melitaea maturna L., der kleine Maivogel oder Eschenscheckenfalter, ein neuer Forstschädling? Arch. Forstwesen 1. 1952, 161—166, 6 Abb., 1 Karte.

Graham, K., and **Stark, R. W.,** Lodge pole needle miner (Recurvaria milleri). [bionomics] Canada Sci. Serv., Div. Ent., Forest Insect Invest. Bi-mon. Progr. Rept. 5. 1949, nr. 6, p. 2—3.

Grant, J., and **Larue, P.,** Lodge pole needle miner (Recurvaria milleri). [distribution) Canada Sci. Serv., Div. Ent., Forest Insect Invest. Bi-mon. Progr. Rept. 5. 1949, nr. 6, p. 3.

Gregor, F., Moli rodu Lithocolletis Hb. na dubech v ČSR. (The quercicolous Lithocolletis Hb. in ČSR.) Zool., ent. Listy (Folia zool., ent.), Brno (ČSR), 1. 1952, 24—56, 8 fig., 8 tab., 3 tab. col.

Grison, P., L'infestation de nos bois par la chenille processionnaire du chêne. [Thaumetopoea processionea] Agric. prat., Paris, 116. 1952, 597—599.

Grison, P., La processionnaire du chêne (Thaumetopoea processionea L.) dans la région parisienne. Rev. Path. vég., Ent. agric. France 31. 1952, 103—114, 1 fig.

Groschke, F., Nonnenbekämpfung mit neuzeitlichen Mitteln. [Lymantria monacha] Ztschr. angew. Ent. 33. 1952, 359—368.

Heller, R. C., Bean, J. L., and **Marsh, J. W.,** Aerial survey of spruce budworm damage in Maine in 1950. J. Forestry 50. 1952, 8—11, 4 fig.

Henson, W. R., and **Sheperd, R. F.,** The effects of radiation on the habitat temperatures of the lodgepole needle miner, Recurvaria milleri Busck (Gelechiidae: Lepidoptera). Canad. J. Zool. 30. 1952, 144—153, 1 fig.

Henze, Das Ende der Eichenwicklersorgen. Allg. Forstztschr. 7. 1952, 531—533, 3 Abb.

Heqvist, K. J., Allmänna fjädertofsspinnarens (Orgyia antiqua L.) uppträdande i Norrland åren 1947 och 1948. (Das Auftreten von Orgyia antiqua L. in Norrland in den Jahren 1947 und 1948.) Norrlands Skogsvårdsförb. Tidskr., Stockholm, 1952, 45—63, 5 fig.

Holloway, P. H., In Hampshire woods. [moths] Ent. Rec., J. Variation 64. 1952, 115—118.

Jäckh, E., Die fruchtminierenden Arten der Gattung Nepticula Neyd. (Etainia Beirne) an den vier deutschen Ahornarten (Lep. Nepticulidae). [includes N. monspessulanella, new species] Ztschr. Wiener ent. Ges. 36 (1951). 1952, 170—178.

Jaynes, H. A., and **Drooz, A. T.,** The importance of parasites in the spruce budworm infestations in New York and Maine. [Choristoneura fumiferana] J. econ. Ent. 45. 1952, 1057—1061.

Joly, R., Processionnaires (Thaumetopoea processionea L.). Rev. forest. franç., Nancy, 1952, 355—360.

Karpiński, J. J., Z badań nad zdrowotnością jaj mniszki. (Aus den Untersuchungen über den Gesundheitszustand der Eier der Nonne.) Sylwan, Lwów i Warszawa, 96. 1952, 174—175.

Knight, F. B., Insect damage to loblolly pine [Pinus taeda] cones. Virginia Forests 7. 1952, nr. 1, p. 14—15.

Konikow, A. S., (Aufzucht des Eichenspinners auf Birke in Kolchosen Westsibiriens.) Dokl. Vsesoiuzn. Akad. Sel'skohoz. Nauk im. V. I. Lenina (Proc. Lenin Acad. agric. Sci.) 17. 1952, nr. 9, p. 40—43.

Lepori, L., Una micosi delle larve di Thaumetopea pityocampa Schiff. Not. Mal. Piante nr. 19. 1952, 77—79.

Martynowa, E. F., (Special features of the lepidopterous fauna of the Southern Ural Area and its importance for steppe silviculture.) Trudy Akad. Nauk SSSR, Zool. Inst., 11. 1952, 66—91.

Miller, F., Přástevníček americký — Hyphantria cunea Drury náš nejvažnější škůdce. Zool., ent. Listy (Folia zool., ent.), Brno (ČSR), 1. 1952, 16—23, 15 fig.

Mitchell, R. T., Consumption of spruce budworms (Choristoneura fumiferana) by birds in a Maine spruce-fir forest. J. Forestry 50. 1952, 387—389.

Morawskaja, A. S., Malyj neparnyj schelkoprjad kak massowyj wreditelj duba. (Der kleine Schwammspinner — Parocneria detrita Esp. — ein Massenschädling der Eiche.) Zool. Žh. (Zool. J.) 31. 1952, 367—371.

Morgan, L. S., and **Kremer, R. W.,** Some observations of effect on streams from the DDT spraying for hemlock looper. [Lambdina fiscellaria] Pennsylv. Forests, Waters 4. 1952, 138—140.

Müller, J., Eine gelungene Zucht von Stauropus fagi L. Ent. Ztschr., Frankfurt a./M., 62. 1952, 130—131.

Neugebauer, W., Die Bekämpfung des Kieferntriebwicklers. Vorbeugende waldbauliche Maßnahmen. [Rhyacionia (Evetria) buoliana] Forstarchiv 23. 1952, 159—165, 1 Abb., 2 Landkart.

Picco, D., Lotta chimica contro la processionaria del pino (Thaumaetopoea pytiocampa Schiff.). (Chemical control against Thaumaetopoea pytiocampa.) Not. Mal. Piante nr. 21. 1952, 1—8.

Polozhentsew, P. A., and **Korowina, N. I.,** (Calymnia trapezina—seed pest of Ulmus species.) Les i Step' (USSR.) 4. 1952, nr. 10, p. 81.

Radcliffe, D. M., An appraisal of seed damage by the Douglas fir cone moth (Barbara colfaxiana), in British Columbia. Forestry Chron., Toronto, 28. 1952, nr. 2, p. 19—24.

Romanowa, W. P., K woprosu o listowertkach (sem. Tortricidae) stepnych lesonasashdenij. (Zur Frage über die Wickler (Fam. Tortricidae) der Steppenwaldanpflanzungen.) Zool. Žh. (Zool. J.) 31. 1952, 361—366.

Rudnew, D. F., and **Zagaikewitsch, J. K.,** (Method of toxic belts in the control of pine moth.) [Dendrolimus pini] Lesnoe Khoz. (USSR) 5. 1952, 75—92.

Rywkin, B. W., (Parasites of Dendrolimus pini in Eastern Plesye.) Dokl. Akad. Nauk SSSR 84. 1952, 853—856.

Scharow, A. G., (Relation of morpho-functional condition of Exaereta ulmi caterpillars to the type of forest plantings in the South-East of Ukrainian SSR.) Dokl. Akad. Nauk SSSR 84. 1952, 805—808.

Schenk, P. J., (The Larix moth.) [Coleophora laricella] Cult. en Handel (flem.) 18. 1952, 524—526.

Schwenke, W., Unsicherheitsfaktoren bei der Kiefernspannerprognose und Möglichkeiten ihrer Überwindung. Mit einer Ermittlung der Nadelverbrauchsnormen und kritischen Zahlen von Bupalus piniarius L. und Semiothisa liturata Cl. Beitr. Ent., Berlin, 2. 1952, 189—243.

Schwenke, W., Untersuchungen zum Massenwechsel der Kiefernspanner Bupalus piniarius L. und Semiothisa liturata Cl. auf vergleichend-biozönotischer Grundlage. I. Über die Abhängigkeit der Populationsdichte der beiden Spannerarten von Waldtyp, Bestandesalter und Bestandesklima im Kieferngebiet zwischen Berlin und Fürstenwalde. Beitr. Ent., Berlin, 2. 1952, 1—55, 12 Abb.

Simonow, N. S., (Versuch zur gelenkten Aufzucht des Eichenspinners.) Dokl. Vsesoiuzn. Akad. Sel'skohoz. Nauk im. V. I. Lenina (Proc. Lenin Acad. agric. Sci.) 17. 1952, nr. 9, p. 33—39.

Sinreich, A., Ein neuer Schädling, der amerikanische Webebär, Hyphantria cunea Drury. Österr. Vierteljschr. Forstwesen 93. 1952, 30—34.

Spaić, I., Pojava savijača u hrastovim šumama. (Sur l'apparition de Tortrix viridana L. dans les forêts de chênes de Croatie.) Saschtita Bilja (Plant Prot.), Beograd, nr. 12. 1952, 70—73.

Spaić, I., Suzbijanje gubara aviometodom. Dopunski pokusi. (Gipsy moth control by means of aircraft. Supplementary tests.) [Lymantria dispar] Inst. šumarska istraživanja, Zagreb, nr. 9. 1952, 53 p., 9 fig.

Stark, R. W., Analysis of a population sampling method for the lodgepole needle miner [Recurvaria milleri] in Canadian Rocky Mountain parks. Canad. Entomologist 84. 1952, 316—321.

Stark, R. W., Sequential sampling of the lodgepole needle miner. Forestry Chron., Toronto, 28. 1952, nr. 2, p. 57—60.

Strelzow, I. I., Uberetschj molodyje dubki ot powreshdenij slatoguskoj. (Schutz der jungen Eichen gegen Beschädigungen durch die Goldafterraupe.) Les i Step' (USSR) 4. 1952, 86.

Švolkovskis, A., (Massenvermehrung von Evetria (Retinia) turionana Hb. in den Kieferbeständen der Lettischen SSR 1945—1947.) LPSR ZA Mežsaimn. probl. inst. raksti 1. 1949, 141—150.

Templin, E., Auftreten des Eichenprozessionsspinners und Vorschläge zu seiner Bekämpfung. Wald 2. 1952, 124—126.

Thalenhorst, W., Erfahrungen mit zwei forstlichen Dauerschädlingen (Eichenwickler und Kleine Fichtenblattwespe). [Tortrix viridana, Pristiphora pini] Mitt. Biol. Zentralanst. H. 74. 1952, 58—61.

Turner, K. B., The relation of mortality of balsam fir, Abies balsamea (L.) Mill., caused by the spruce budworm, Choristoneura fumiferana (Clem.), to forest composition in the Algoma forest of Ontario. Canada Dept. Agric. Publ. 875. 1952, 107 p , 35 fig.

Vandenburg, D. O., The orange striped oak caterpillar (Anisota senatoria) a defoliator of oak. Pennsylv. Forest, Waters 4. 1952, 102—103.

Vandenburg, D. O., A special report on current findings in conjunction with an aerial spray of DDT in oil solution for the control of hemlock looper. [Lambdina fiscellaria] Pennsylv. Forests, Waters 4. 1952, 134—138.

Varley, G. C., The winter moth and other defoliators of oak. Proc. R. ent. Soc. London (ser. C) 16. 1952, 36 (Abstr.).

Vasić, K., (Une contribution à la connaissance des causes du trouble de l'indice sexuel dans le stade critique de gradation de Liparis dispar L. (Lepidoptera, Liparidae).) Bull. Coll. Forestry (Univ. Belgrad) 1. 1950, 311—336, 7 fig.

Vité, P., Zur Frage der Blausieb-Schäden. [Zeuzera pyrina] Holz-Zentralbl. 78. 1952, 219.

Voûte, A. D., Aantasting van Douglas door de lariksmot (Coleophora laricella Hb.). Nederl. Boschbouwtijdschr. 24. 1952, 244—246.

Voûte, A. D., Coleophora laricella Hb. on Pseudotsuga taxifolia Britt. Nederl. Boschbouwtijdschr. 24. 1952, 244—246.

Weckwerth, W., Der Kiefernspinner und seine Feinde. [Dendrolimus pini] Akad. Verl.ges. Geest & Portig, K.-G., Leipzig 1952. 40 S., 21 Abb. (Neue Brehm-Bücherei H. 65).

Weidner, H., Kahlfraß durch den Eichenprozessionsspinner. [Thaumetopoea processionea] Anz. Schädl.-kunde 25. 1952, 151, 1 Abb.

Wellington, W. G., Air-mass climatology of Ontario north of lake Huron and lake Superior before outbreaks of the spruce budworm, Choristoneura fumiferana (Clem.), and the forest tent caterpillar, Malacosoma disstria Hbn. (Lepidoptera: Tortricidae; Lasiocampidae). Canad. J. Zool. 30. 1952, 114—127, 3 fig.

Wereschtschagina, W. W., Lesochosjaistwennyje meroprijatija dlja saschtschity drewostoja ot dubowoj listowertki i neparnogo schelkoprjada. (Forstwirtschaftliche Maßnahmen zum Schutz der Bestände gegen den grünen Eichenwickler Tortrix viridana L. - und den großen Schwammspinner.) Lesnoe Khoz. (USSR) 5. 1952, nr. 2, p. 86—87.

Wereschtschagina, W. W., Rolj sweta w powedenii i raspredelenii neparnogo schelkoprjada i dubowoj listowertki w uslowijach polesaschtschitnych lesnych polos. (Die Rolle des Lichts für das Verhalten und die Verbreitung des großen Schwammspinners — Liparis dispar L. — und des grünen Eichenwicklers — Tortrix viridana L. — in den Bedingungen der feldschützenden Waldstreifen.) Zool. Žh. (Zool. J.) 31. 1952, 25—32.

Zocchi, R., Contributi alla conoscenza degli insetti delle piante forestali. II. Note biologiche sull'Evetria buoliana Schiff. (Lepidoptera Tortricidae). »Redia«, Giorn. Ent., Firenze, XXXVII (2. ser.). 1952, 345—370, 13 fig.

Fighting the spruce budworm (Choristoneura fumiferana). Timber Canada 12. 1952, nr. 5, p. 26—28.

Moyens de lutte contre la processionnaire du pin. Forêt Febr. 1952, 84—85.

Operation budworm (Cacoecia fumiferana). Woodland Rev., Gardenvale (Que.), Juli 1952, 2—4, 7—8, fig.

Spruce budworm spraying project. Woodland Rev., Gardenvale (Que.), Jan. 1952, 15, 17, 2 fig.

Diptera

Clark, J., The spruce bud midge, Rhabdophaga swainei Felt (Cecidomyiidae: Diptera). Canad. Entomologist 84. 1952, 87—89.

D'Assis-Fonseca, E. C. M., Diptera attracted by a Cossus-infested oak-tree. Ent. Rec., J. Varation 64. 1952, 360—361.

Matthysse, J. G., and **Naegele, J. A.,** Control of several tree and shrub leaf miners. J. econ. Ent. 45. 1952, 377—383.

Régnier, R., Importance des dégâts de la mineuse du cambium du peuplier pour l'industrie du déroulage. [Dizygomyza] Trans. IXth int. Congr. Ent., Amsterdam, 1 (1951). 1952, 711—714.

Smith, C. C., The life-history and galls of a spruce gall midge, Phytophaga piceae Felt (Diptera: Cecidomyiidae). Canad. Entomologist 84. 1952, 272—275.

Hymenoptera

Aino, S., (Black spotted Paine saw-fly [Diprion nipponica] and its control.) J. Plant Prot., Tokyo, 39/40. 1952, 356—358.

Allman, S. L., Summary of evidence submitted at Sirex Wasp Committee of Inqiry. Austr. Timber J. 18. 1952, 20, 22.

Bilbe, L. T., Report (to Sirex Committee). Austr. Timber J. 17. 1952, 787—788, 793, 795.

Brookes, J. D., Evidence given before the Sirex Wasp Committee. Austr. Timber J. 18. 1952, 26, 28, 30, 33—34, 80.

Butcher, J. W., and **Eaton, C. B.,** The larch sawfly (Pristiphora erichsonii) epidemic in the Lake States; surveys and spraying experiments in 1949 and 1950. US Bur. Ent., Plant Quar. E-841. 1952, 8 p.

Cantelo, W. W., Birch leaf miner [Fenusa pusilla] and its control. Proc. nat. Shade Tree Conf. 28. 1952, 45—58.

Detroux, L., Action des insecticides de synthèse sur le némate de l'épicéa (Lygaeonematus pini Retz.). Parasitica, Gembloux, 8. 1952, 127—130.

Elton, E. T. G., Improvement of the ant population of our forests. TNO-Nieuws (Org. toegepast-natuurwetensch. Onderz.), Amsterdam, 7. 1952, 43—44.

Emmel, Ein gefährlicher Forstschädling: die Kiefernbuschhornblattwespe. [Diprion pini] Umschau 52. 1952, 337, 3 Abb.

Francke-Grosmann, H., Bericht über eine Bekämpfung der kleinen Fichtenblattwespe (Pristiphora pini Retz., Nematus abietum Htg.) im Revier Cloppenburg (Oldenburg) mittels Hubschrauber. Ztschr. Weltforstw. 15. 1952, H. 1.

Franz, E., Eichenknoppern. [Cynips quercus — calicis] Natur u. Volk 82. 1952, 361—365, 6 Abb.

Gäbler, H., Beiträge zur Kenntnis der kleinen gestreiften Fichtenblattwespe Pachynematus scutellatus Htg. Arch. Forstwesen 1. 1952, 88—99.

Galoux, A., La pullulation du lophyre roux (Neodiprion sertifer Geoffr.) dans la Région spadoise (1948—1950). Trav. Stat. Rech. Groenendaal (Belg.), Sér. C, nr. 16. 1952, 31 p., 4 fig.

Grundmann, A. W., and **Evans, F. R.,** A study of the bacterial flora of certain gall wasps (Hymenoptera, Cynipidae) affecting scrub oak (Quercus gambelii Nutt.). J. Kansas ent. Soc. 25. 1952, 66—68.

Hadlington, P., The siricid woodwasps. Austr. Timber J. 17. 1952, 890, 892, 895.

Hanson, H. S., Megastigmus seedflies. Queensland J. Forestry 46. 1952, 261—264.

Heqvist, K. J., Några iakttagelser vid en härjning av bleka tallstekeln (Diprion pallidum Klug.) (Beobachtung von Schadwirkungen, verursacht durch Diprion pallidum.) Svenska Skogsvårdsfören. Tidskr., Stockholm, 50. 1952, 221—230, 6 fig.

Heron, R. J., Notes on the feeding of larvae of the larch sawfly, Pristiphora erichsonii (Htg.) (Hymenoptera: Tenthredinidae). Ontario ent. Soc. Ann. Rept. 82 (1951). 1952, 67—70.

Hussey, N. W., Megastigmus insects attacking conifer seed. Great Brit. Forestry Comn. Rept. Forest Res. 1950—51. 1952, 137—138.

Kalandra, A., Ploskohřbetka smrková a boj proti ní. (Fichten-Gespinstblattwespe und ihre Bekämpfung.) [Cephaleia abietis (Lyda hypothropica)] Lesnická Knihovna, Praha, Svazek (Forstl. Bibl., Prag, H.) 14. 1952, 29 p., 11 fig.

Kalandra, A., Prognosa rojeni ploskohrbentky smrkove, Cephaleia abietis L. (Flugzeit-Prognose von Cephaleia abietis L.) Lesn. Práce (Oeuvre Forest.), Pisek, 31. 1952, 274—275.

Kalandra, A., a **Kolubajiv, S.,** Nový zpusob hubeni smrkových pilatek Pachynematus scutellatus a P. montanus poprašovanim rojiciho se dospeleho hmyzu dynocidem. (Neue Methode zur Bekämpfung der Fichtenblattwespe Pachynematus scutellatus et P. montanus durch Bestäubung der befallenen Bestände während der Schwarmzeit der erwachsenen Wespen mit Kontaktgiften.) Lesn. Práce (Oeuvre Forest.), Pisek, 31. 1952, 125—129.

Koehler, W., Próba zastosowania insektycydów kontaktowych w zwalczaniu osnui gwiazdzistej. (Versuch der Anwendung von Kontaktinsektiziden bei der Bekämpfung der Blattwespe Acantholyda nemoralis Thomps.) Sylwan, Lwów i Warszawa, 96. 1952, 100—110.

Kolubajiv, S., Naše nejškodlivější smrkové pilatky a boj proti nim. (Unsere schädlichsten Blattwespen und ihre Bekämpfung.) Lesnická Knihovna, Praha, Svazek (Forstl. Bibl., Prag, H.) 16. 1952, 47 p., 27 fig.

Maan, W. J., en **Meijerink, W. E.,** De dennenbladwespbestrijding met behulp van vliegtuigen. (Bekämpfung von Diprion pini mit Flugzeugen.) Tijdschr. nederl. Heidemaatsch. 63. 1952, 65—73, 2 fig.

McLeod, J. H., Notes on the population and parasitism of the larch sawfly, Pristiphora erichsonii (Htg.) (Hymenoptera: Tenthredinidae), in British Columbia. Proc. ent. Soc. brit. Columbia 48. 1952, 81—85.

McMullen, M. J., The sterilization of Baltic pine infested by siricid wood wasp. Austr. Timber J. 17. 1952, 875—876, 879, 881—882, 885, 887—888, 919.

Nessenius, Einsatz eines Hubschraubers bei der Bekämpfung der Kleinen Fichtenblattwespe im Forstamt Cloppenburg. Mitt. Biol. Zentralanst. H. 74. 1952, 163—166.

Plumb, G. H., Birch leaf miner (Fenusa pusilla). Tree Pest Leafl.s, Boston, 56. 1952, 3 p.

Rawlings, G. B., Progress in establishment of Ibalia leucospoides, a parasite of Sirex noctilio, the horntail borer of pine. New Zealand sci. Rev. 10. 1952, 107—108.

Schewtschenko, M. J., (In regard to the geographic distribution and silvicultural importance of the oak gall-flies (Cynipidae) in USSR.) Zool. Žh. (Zool. J.) 31. 1952, 659—663.

Schread, J. C., Birch leaf miner [Fenusa pusilla] control. Connecticut State agric. Exp. Stat. Circ. nr. 182. 1952, 5 p.

Thalenhorst, W., Erfahrungen mit zwei forstlichen Dauerschädlingen (Eichenwickler und Kleine Fichtenblattwespe). [Tortrix viridana, Pristiphora pini] Mitt. Biol. Zentralanst. H. 74. 1952, 58—61.

Thalenhorst, W., Versuche zur Bekämpfung der Kleinen Fichtenblattwespe. [Pristiphora pini] Forst u. Holz 7. 1952, 49—51.

Thalenhorst, W., Zur Kenntnis der Fichten-Blattwespen. I. Die Nematinen des Südharzes. Ztschr. Pfl.krankh. 59. 1952, 110—115, 3 Abb.

Underwood, N. B., The red-headed pine sawfly (Neodiprion lecontei). Wisconsin Conserv. Bull., Madison, 17. 1952, nr. 8, p. 14—15.

Wantzen, DDT und Hexa gegen Kiefernschonungs-Gespinstblattwespe. [Acantholyda erythrocephala L.] Landw. Wochenbl. Westf., Lippe 109A. 1952, 874—875.

Wong, H. R., Cocoons of some sawflies that defoliate forest trees in Manitoba and Saskatchewan. Ontario ent. Soc. Ann. Rept. 82 (1951). 1952, 61—67.

De dennenbladwesp (Diprion pini L.). Tijdschr. nederl. Heidemaatsch. 63. 1952, 156.

(The **pine beetle** (Myelophilus piniperda) danger in forests previously attacked by the pine sawfly (Diprion pini).) Tijdschr. nederl. Heidemaatsch. 63. 1952, 21.

Acari

Meyer, J., Edification de galles multiples par une même fondatrice et peuplement des galles d'Eriophyes macrorhynchus Nal. sur Acer pseudoplatanus L. Compt. rend. Acad. Sci., Paris, 235. 1952, 1428—1430.

Varia

Alejnikowa, M. M., and **Utrobina, N. M.,** (On some pests of oak in Tatar ASSR.) [Megachile, Haltica oleracea] Les i Step' (USSR) 4. 1952, nr. 11, p. 85—86.

Dame, Über zwei Lindenschädlinge. [Phalera bucephala, Eriocampoides annulipes] Gesunde Pflanzen 4. 1952, 57—58, 2 Abb.

Padii, N. N., (Seed pests of [Siberian] larch in Ukrainian SSR.) [Chortophila laricicola, Megastigmus seitneri, Dioryctria abietella] Lesnoe Khoz. (USSR) 5. 1952, 71—73.

Schread, J. C., Tree pests and their control. [mites, Anisota senatoria and Fenusa pusilla] Connecticut Woodlands 17. 1952, 60—61.

Unterstenhöfer, G., Fortschritte in der Blattlaus- und Spinnmilben-Bekämpfung in Baumschulen. Dtsch. Baumschule 4 1952, 79—80, 106—107.

Vertebrata

(Siehe auch — see also — voyez aussi p. 77.)

Adam, F., Schutz der Forstpflanzen gegen Wildverbiß. Allg. Forstztg., Wien, 63. 1952, 12, 2 Abb.

Amon, R., Erhebungsbogen über das Schälen des Rotwildes. Bericht über die bisherige Auswertung. Allg. Forstztg., Wien, 63. 1952 54—55.

Baschenina, N. W., and **Kutscheruk, W. W.,** (In regards to methods for controlling small rodents in the shelterbelts.) Bull. Otd. Biol. Obshch. Isp. Prirody, Moskwa, 57. 1952, nr. 5, p. 3—11.

Bruun, J., and **Holmsgaard, E.,** (On fence expenses and other expences in connection with protection against wildlife.) [in danish forests] Dansk Skovforen. Tidsskr. 37. 1952, 206—212.

Buckland, D. C., Animal damage to conifers. Brit. Columbia Lumberman, Vancouver, 36. 1952, nr. 10, p. 58, 60, 62, 64.

Buckland, D. C., and **Marples, E. G.,** Rodent damage to western hemlock. Forestry Chron., Toronto, 28. 1952, nr. 2, p. 25—30.

Busse, v., Ist Schutzkratzen wirklich ein empfehlenswertes Mittel gegen das Schälen des Rotwildes? Forst und Holz 7. 1952, 64—65.

Detroux, L., et **Fouarge, J.,** Essai de protection des plants forestiers contre les dégâts du petit gibier (lapin et lièvre). Bull. Inst. agron., Stat. Rech. Gembloux. 20. 1952, 188—222, 5 fig.

Dinesman, L. G., (On problems of zoological investigations of vertebrates in the clayey semideserts of Zavolzh'e in connection with shelterbelt silviculture.) Bull. Otd. Biol. Obshch. Isp. Prirody, Moskwa, 57. 1952, nr. 1, p. 3—9.

Eidmann, F. E., Wertminderung von Fichtenbeständen durch den Schälschaden des Rotwildes. Forstarchiv 23. 1952, 65—69, 1 Abb.

Essig, Nochmals: »Unsere Wildverbißschutzmittel«. Allg. Forstztschr. 7. 1952, 105—106.

Falkenschteĭn, B. J., and **Winogradow, B. S.,** Susliki, vredîashchie lesnym nasazhdeniîâm, i mery bor' by s nimi. (Siberian marmots which damage forest plantings and measures for controlling them.) Akad. Nauk SSSR, Moskwa 1952. 29 p.

Flugel, H., Wildverbißschutz im Forstamt Westerhof. Forst u. Holz 7. 1952, 82—83.

Frank, F., Mäuseschäden in Forstkulturen. Ein Hinweis auf drohende Gefahren. Forstarchiv 23. 1952, 199—200.

Frank, F., Umfang, Ursachen und Bekämpfungsmöglichkeiten der Mäusefraßschäden in Forstkulturen. Nachr.bl. dtsch. Pfl.schutzd., Braunschweig, 4. 1952, 183—189, 2 Abb.

García Díaz, E., La riqueza forestal y la ganaderia. Montes, Madrid, 8. 1952, 235—239.

Geise, W., Ohlsens Fegeschutz DGM. Forst u. Holz 7. 1952, 100.

Gracie, W. M., The menace of the wild rabbit. Quart. J. Forestry (England) 46. 1952, 166—170.

Gusovius, H., Schälschadenschutz durch Sinoxyd in Buchenbeständen. Ein Merkblatt für die Anwendung. Forstarchiv 23. 1952, 13—14.

Hartmann, F., Das Schälen des Rotwildes. Pirsch 4. 1952, 577—578.

Hunziker, F., Vom Wildschaden und seinen Folgen für die Bewirtschaftung und den Ertrag des Waldes. Schweiz. Ztschr. Forstwesen 103. 1952, 224—228.

Inukai, T., and **Wakazono, T.,** (On the damage done by the vole in the reforesting area at Ichinohashi. Teshio of Hokkaido and a consideration on the vole damage in Hokkaido in general.) Mem. Hokkaido Univ., Fac. Agric., 1. 1952, 127—131.

Juutinen, P., (On damages in spruce seed crops caused by squirrels in Finland.) Metsätaloud. Aikakausl., Helsinki, 8. 1952, 219—221.

Kulicke, H., Forstschädliche Mäuse und ihre Bekämpfung. Inst. Forstwiss. Eberswalde Merkbl. Nr. 5. 1952, 1—16, 12 Abb.

Lindemann, W., Untersuchungen über Verminderung von Wildschäden auf natürlichem Wege. Ztschr. Weltforstw. 15. 1952, 197—202.

Loycke, H. J., Die Prüfung von Wildverbißschutzmitteln im Forstbetrieb. Nachr.bl. dtsch. Pfl.schutzd., Braunschweig, 4. 1952, 2—5.

McCullough, J. M., Deer — or timber? Pennsylv. Game News 23. 1952, nr. 6, p. 30, 35.

Morgan, E., In a pig's eye. [damage to longleaf pine (Pinus palustris) seedlings by hogs] Forest and People 2. 1952, nr. 2, p. 10—14.

Polosuchin, G. G., and **Modin, G. W.,** (Methods of protecting shelterbelts from hares.) Les i Step' (USSR) 4. 1952, nr. 11, p. 84—85.

Priaulx, A. W., Hunter's paradise imperiled. [damage to forests by hunters] Amer. Forests 58. 1952, nr. 11, p. 6—9.

Schäfer, Th., Nochmals: Der Einzeldrahtschutz. Allg. Forstztschr. 7. 1952, 527, 2 Abb.

Schilowa-Krassowa, S. A., (On the silvicultural importance of the great spotted woodpecker in the southern forests of European USSR.) Bull. Otd. Biol. Obshch. Isp. Prirody, Moskwa, 57. 1952, nr. 4, p. 15—24.

Schleicher, Der »Stachelbaum«, ein Beitrag zur Wildschadensverhütung. Allg. Forstztschr. 7. 1952, 390, 1 Abb.

Siegmund, Schälen des Rotwildes ohne Gefahr für den verbleibenden Bestand. Forst u. Holz 7. 1952, 24—25.

Steingass, K. P., Ein Rotwildrevier sucht sein Pflanzenschutzverfahren. Forstl. Mitt. 5. 1952, 157—158.

Storch, K., Die Bedeutung der Wildverbißschutzmittel für die Forstwirtschaft. Nachr.bl. dtsch. Pfl.schutzd., Braunschweig, 4. 1952, 1—2.

Templin, E., Abwehr der Hasen- und Wildkaninchenschäden mit mechanischen und chemischen Mitteln. Inst. Forstwiss. Eberswalde Merkbl. Nr. 4. 1952, 1—7.

Thiem, H., Über die Möglichkeit einer Vorprüfung von Wildverbißschutzmitteln an Kaninchen. Nachr.bl. dtsch. Pfl.schutzd., Braunschweig, 4. 1952, 145—149.

Thurn-Valsassina, G. G., Für Wald und Wild. Kärntner Bauer (Österr.) 102. 1952, 503—504.

Tschenzowa, N. J., Otrawlennye primanki dlja borby s grysunami w lesonasashdenijach. (Vergiftete Köder für die Bekämpfung der Nager in Waldbeständen.) Lesnoe Khoz. (USSR) 5. 1952, 81—82.

Tschenzowa, N. J., Powedenie myschewidnych grysunow pri otyskiwanii pischtschi i saschtschita ot nich semjan w posewach. (Verhalten der mäuseartigen Nager bei der Nahrungssuche und Schutz der ausgesäten Samen vor ihnen.) Zool. Žh. (Zool. J.) 31. 1952, 422—432.

Van't Woudt, B. D., Damage by deer in the northern Kaimanawas. New Zealand R. Soc. sci. Congr. Rept. 7 (1951). 1952, 239 (Abstr.).

Wettinger, Schutz gegen Wildverbiß. Bad. landw. Wochenbl. 119. 1952, 57, 1 Abb.

Wigman, A. B., Beschadiging van jonge Weymouth door de Rosse Woelmuis. (Schaden an jungen Pinus strobus durch Wühlmäuse (Evotomys glareolus Schreber).) Tijdschr. nederl. Heidemaatsch. 63. 1952, 148—150.

Der **Einzel-Drahtschutz.** Allg. Forstztschr. 7. 1952, 422—423, 10 Abb.

Rindsblut als wirksames Wildverbißmittel. Neue Berliner Gärtner-Börse 5. 1951, 15.

e. Ulmensterben
Dutch elm disease
Maladie hollandaise des ormes

Ames, R. W., Tests for elm phloem necrosis. Plant. Dis. Reptr. 36. 1952, 288—291.

Blagbrough, H. P., Reducing wildlife hazards in Dutch elm disease control. J. Forestry 50. 1952, 468—469.

Bretz, T. W., Diseases of shade trees. [oak wilt, elm phloem necrosis and Dutch elm disease] Arborist's News 17. 1952, 81—84.

Bruggeman, L. C., Let's save our elms. Horticulture (nat. ed.) 30. 1952, 143.

Carter, J. C., Increase of Dutch elm disease in Illinois. Plant Dis. Reptr. 36. 1952, 24—25, 1 fig.

Hurford, A. W., Living with the Dutch elm disease. Proc. nat. Shade Tree Conf. 28. 1952, 103—110.

Lekander, B., Mathiesen, A., and **Rennerfelt, E.,** Om almsjukan samt råd och anvisningar für dess bekämpande. (On the Dutch elm disease, with advice and directions for its control.) Skogsforskningsinst., Stockholm, Flygbl. nr. 65. 1952, 8 p., 5 fig.

Liese, J., Pflanzenphysiologische Betrachtungen zum Ulmensterben. Arch. Forstwesen 1. 1952, 59—70, 11 Abb.

Marsden, D. H., Pruning elms affected with Dutch elm disease. Phytopathology 42. 1952, 113—114 (Abstr.).

Meyers, W. I., DED fight in Detroit. [Dutch elm diseases] Michigan Forestry, Park Assoc. Ann. Meetg. 26. 1952, 13.

Mix, W. B., They are not doomed. [Dutch elm disease] Horticulture (nat. ed.) 30. 1952, 364—370.

Morling, R. J., Save the elms. [Dutch elm disease and beetles as vectors in Great Britain] Countryman, [Burford], 46. 1952, 338—341.

Rex, E. G., Living with the Dutch elm disease. Proc. nat. Shade Tree Conf. 28. 1952, 110—118.

Shepard, W. C., and **Hurford, A. W.,** Living with Dutch elm disease. Amer. Forests 58. 1952, nr. 4, p. 26—27, 40, 42.

Vajda, Z., Borba protiv sušenja brijestowa. (Bekämpfung des Ulmensterbens.) Šumarski List, Zagreb, 76. 1952, 326—335.

Vajda, Z., Uzroci epidemijskog ugibanja brijestova. (Les causes du dépérissement épidémique des ormes.) Glasnik Šumske Pokuse (Ann. Exp. forest.), Zagreb, 10. 1952, 105—197, 7 fig.

Warner, O. F., Connecticut combats Dutch elm disease. Arborist's News 17. 1952, 55—59.

Went, J. C., Boomziekten in de Verenigde Staten. Studierapport. [Endoconidiophora fagacearum, phloem necrosis, Ceratostomella ulmi] Contactgroep Opvoering Productiviteit, 's-Gravenhage 1952. 47 p., 17 fig.

Zieger, E., Das Ulmensterben. Wald 2. 1952, 21—26.

National Shade Tree Conference devotes much of meeting to study of chemical control of tree pests. [Ceratostomella ulmi] Agric. Chem., Baltimore, 7. 1952, nr. 9, p. 79, 114—115, 117.

f. Virus

Varney, E. H., and **Moore, J. D.,** Mechanical transmission of a virus from mosaic-infected elm to herbaceous plants. Phytopathology 42. 1952, 22 (Abstr.).

Varney, E. H., and **Moore, J. D.,** Strain of tomato ringspot virus from American elm. Phytopathology 42. 1952, 476—477.

g. Holzschutz
Wood preservation — Protection du bois

(Siehe auch — see also — voyez aussi p. 305.)

Amos, G. L., Silica in timbers. Austr. Commonw. sci., ind. Res. Org. Bull. 267. 1952, 55 p.

Andrews, J. W., Volatility of some of the compounds in creosote produced from high-temperature tar. Proc. amer. Wood Preserv.' Assoc. 48. 1952, 85—98.

Barreto, A., (A new process for immunizing wood.) Chacaras e Quintaes, São Paulo, 85. 1952, 319—320.

Bavendamm, W., Lentinus lepideus (Buxb.) Fr., pflanzliche Holzschädlinge. Holz als Roh-, Werkstoff 10. 1952, 337—338, 4 Abb.

Bavendamm, W., und Bellmann, H., U-Salze. Holzschutzmittel. Holz als Roh-, Werkstoff 10. 1952, 375—378, 1 Abb.

Becker, G., Untersuchungen über die Schutzwirkung von Pentachlorphenol gegen holzzerstörende Insekten. Holz als Roh-, Werkstoff 10. 1952, 341—352.

Bellmann, H., und Francke-Grosmann, H., Versuche zur Tränkfähigkeit verblauten Kiefernsplintholzes. — Erste Mitteilung. Tränkung mit öligen Imprägniermitteln. Holz als Roh-, Werkstoff 10. 1952, 456—463, 7 Abb.

Berck, B., and Smallman, B. N., Absorption and efflorescence of DDT deposited on wood. Soap, sanit. Chem. 28. 1952, nr. 4, p. 131—133.

Blew jr., J. O., Comparison of wood preservatives in Mississippi post study. (1952 progress report.) US Forest Serv., Forest Prod. Lab., Rept. R 1757. 1952, 11 p.

Borschtschewskij, A. N., (Wood destroying fungus and measures for controlling it.) Priroda, Moskwa, 41. 1952, nr. 10, p. 105—110.

Brauns, A., 3. Holzschutztagung in Hann.-Münden vom 23.—25. September 1952. Anz. Schädl.kunde 25. 1952, 173—174.

Cartwright, K. St. G., and Findlay, W. P. K., Dry rot in wood. Forest Prod. Res., London, Bull. nr. 1. 1952, 5. ed., IV + 36 p., 4 fig., 8 tab.

Chapman, A. D., Treated wood lasts. South. Lumberman, Nashville (Tennessee), 185. 1952, 246, 248, 250, 252.

Chiba, O., and Teramoto, T., (Wood-rotting fungi collected in the Tokyo University Forest in Hokkaido.) Bull. Tokyo Univ. Forests 43. 1952, 19—37.

Cope, J. D., Take care of your timber; pests and diseases can cost you pounds. [wood preservation] Confect. News, London, 86. 1952, nr. 20, p. 40—42.

Cox, H. A., Some recent wood preserving activities. Timber News (Engl.) 60. 1952, 72—73 (Extr.).

Cozzi, F. H., and Horigan, F. D., Oil soluble wood preservatives. US QM Res., Development. Lab., Techn. Libr., Bibliogr. Ser. 25. 1952, 124 p.

Crali, A., (Standardization of nomenclature for wood defects.) Ind. Legno (Italia) 4. 1952, nr. 5, p. 42—43.

Dallas-Cope, J., Preservation of wood. 1. Milk Ind., London, 32. 1952, nr. 11, p. 76—78.

Dallas-Cope, J., The worm in the wood. [wood-destroying insects] Milk Ind., London, 32. 1952, nr. 9, p. 83—87.

Dehn, U. v., Bläueschutzverfahren in nordischen Ländern. Norddtsch. Holzw. 6. 1952, Nr. 23, S. 6.

Delatère, P., Le bois armé du »Néoforme« défie l'ennemi et le temps. Bois nat., Saint-Étienne, 23. 1952, 24—25.

Dunford, E. G., Some relationships between timber cutting and snow storage in the Rocky Mountains. J. Colorado-Wyoming Acad. Sci. 4. 1952, 71 (Abstr.).

Emsweller, S. L., Lumsden, D. V., and Blew, J. O., Relative value of wood preservatives charted. South. Florist, Nurseryman 65. 1952, nr. 6, p. 87—89.

Engelhard, J. M., Une révolution technique à l'aube de l'âge atomique; la pénicilline du bois. Agric. prat., Paris, 116. 1952, 217—218.

Finholt, R. W., Weeks, M., and Hathaway, C., New theory on wood preservation. Ind., engin. Chem. 44. 1952, 101—105.

Fisher, R. C., Some aspects of the biology of timber insects. Sci. Progr., London, 40. 1952, 213—232.

Fisher, R. C., Timber entomology. Timber Trades J., London, 203. 1952, 781—783.

Foss, W. M., Boring from within (and without); insects that attack both down and standing timber. New York State Conservationist 6. 1952, nr. 5, p. 22—23.

Harington, J. S., Notes on two wood-boring beetles apparently new to South Africa. [Eburia quadrigeminata] J. ent. Soc. South. Afr. 15. 1952, 241—242.

Heiks, R. E., Investigation of the fundamental characteristics of creosote oils. 1. Preliminary studies. Proc. amer. Wood Preserv.' Assoc. 48. 1952, 53—83.

Huddleston, E. B., A case for timber preservation in Australia. Austr. Timber J. 18. 1952, 482, 485, 487—488, 491, 500, 506.

Imazeki, R., and Aoshima, K., (Further information on two or three wood-decaying fungi.) [Cryptoderma nigrolimitatum (Fomes nigrolimitatus), Trametes (Fomes) pini] Ann. phytopath. Soc. Japan 16. 1952, 88.

Iwade, I., Fukuzumi, T., and Yanagawa, R., Studies on antagonism of »shiitake« Cortinellus edodes (Berk.) Sawada against wood-rotting fungi. Bull. Tokyo Univ. Forests 43. 1952, 111—126.

Jacquiot, C., Le bleuissement des bois abattus ou debités. Étude Technique nr. 10. 1952, p. 1—5.

Jacquiot, C., Les échauffures des bois abattus. Étude Technique nr. 11. 1952, p. 1—5.

Jacquiot, C., et Leaubie, M., Nouvelles expériences relatives à l'action de la conservation sous l'huile minérale sur l'activité de quelques espèces de champignons lignicoles. Rev. Mycol., Paris, 17. 1952, 168—170.

Johnston, H. R., Insect control, practical methods for the control of insects attacking green logs and lumber. South. Lumberman, Nashville (Tennessee), 184. 1952, nr. 2307, p. 37—39.

Johnston, H. R., Practical methods for the control of insects attacking green logs and lumber. Proc. Assoc. south. agric. Workers 49. 1952, 85—86 (Abstr.).

Keino, K., (Effects of copper salts upon the mycelial growth of wood-destroying fungi. II. The destruction of the wood impregnated with copper salts by Poria vaporaria and Trametes sanguinea. III. Keeping the toxicity of copper salts against Poria vaporaria.) Meguro Forest. Exp. Stat. Bull. nr. 54. 1952, 1—44, 21 fig., 2 tab.

Kimura, K., (On the sex of some wood-destroying fungi.) Bot. Mag., Tokyo, 65. 1952, 145—148.

Kluczycki, K., (The toxicity of some wood preservatives and insulators to fungi and the method of its testing.) Acta microbiol. polon. 1. 1952, 223—256.

König, E., Das Holzschädlings-Lexikon der norddeutschen Holzwirtschaft. [Hylecoetus, Lymexylon] Norddtsch. Holzw. 6. 1952, Nr. 41 [49 ?], S. 3.

Koerner, H., Die Nematodenfauna des vergehenden Holzes und ihre Beziehung zu Insekten. Diss. Erlangen 1952.

Krzyzewski, J., The hot-and-cold bath preservative treatment of jack pine and spruce crossarms with pentachlorophenol solution. Canada Dept. Resources, Developm. Mimeogr. 0—166. 1952, 5 p., 4 tab.

Lindgren, R. M., and **Harvey, G. M.,** Decay control and increased permeability in southern pine sprayed with fluoride solutions. J. Forest Prod. Res. Soc. 2. 1952, 250—256, 3 fig.

McGehee, H. T., and **Van Allen, R. G.,** Laboratory studies on the emulsification properties of petroleum oils used with pentachlorophenol at treating plants. Proc. amer. Wood Preserv.' Assoc. 48. 1952, 224—245.

McMullen, M. J., A direct method of detecting boron in timber. New South Wales Forestry Comn., Div. Wood Technol., Techn. Notes 5 (1951). 1952, nr. 4, p. 12.

Mangenot, F., Recherches méthodiques sur les champignons de certains bois en décomposition. Libr. Gén. Enseignement, Paris 1952. 111 p., 23 fig., 2 tab.

Martakov, A. P., (Haloxylon in snow preserving belts in Turksib.) Les i Step' (USSR) 4. 1952, nr. 8, p. 65—69.

Mártinez, J. B., Conservación de maderas en sus aspectos teórico, industrial y económico. Vol. I. Estudio técnico de los antisépticos de tipo oleaginoso. (Wood preservation in its theoretical, industrial, and economic aspects. Vol. I. Technical study of oil-type preservatives.) Minist. Agric., Inst. Forest. Invest. Exp., Madrid 1952. 550 p., 90 fig.

Miller, J. J., Webb, N. S., and **Reid, J.,** Some experiments on the stimulation of sporulation in Trichoderma lignorum by radiation. Proc. canad. phytopath. Soc. 19. 1952, 19—20 (Abstr.).

Narayanamurti, D., George, J., und **Verma, G. M.,** Studien zur Biochemie holzzerstörender Pilze. Erste Mitteilung: Säureproduktion der Pilze. Holz als Roh-, Werkstoff 10. 1952, 227—229, 3 Abb.

Nearn, W. T., and **Kersteter, A.,** Table top wood treating plant. Pennsylv. agric. Exp. Stat. Progr. Rept. 75. 1952, 4 p.

Nesbitt, E. T., Laval University is developing new technique in preserving wood. Canada Lumberman, Toronto, 72. 1952, nr. 10, p. 50—51, 81.

Neustifter, Ch., Kulturversuche holzzerstörender Pilze und anschließende mikroskopische Untersuchung des abgebauten Holzes. Diss. Wien 1952. 208 S., 26. Taf.

Nowak, A., Bedeutung und gegenwärtiger Stand des Holzschutzes. Allg. Forstztg., Wien, 63. 1952, 130—131.

Olson, H., How does wood decay ? III. Pest Control 20. 1952, nr. 2, p. 32.

Parmenter, R. B., Cold-soak wood preservation. Massachus. Univ. agric. Ext. Spec. Circ. 196. 1952, 2 p.

Perez, L., Reports of recommended practice committees. Proc. Ann. Meetg. amer. Wood-Preserv.' Assoc. 46. 1950.

Piller, J., Holzimprägnierung mittels Elektrolyse. Holz 6. 1952, 35—37.

Popović, V., and **Perović, B.,** (Reaction of beech logs to increased frontal pressure of air and saturated vapour.) (Bull. Coll. Forestry Univ. Belgrad) 5. 1952, 265—269.

Porzer, W., Holzschädlinge und ihre Bekämpfung. Prakt. Chemie, Wien, 3. 1952, 272—273.

Pschorn-Walcher, H., Die biologische Komponente der Stockholzzersetzung. Allg. Forstztschr. 7. 1952, 174—175.

Purushotham, A., Pande, J. N., and **Jadhave, Y. G.,** Wood preservation in India. Indian Forester 78. 1952, 627—634, 3 fig., 1 tab. geogr.

Ramsey, G. R., Sap stain control. Lumberman 79. 1952, nr. 3, p. 182—184.

Rennerfelt, E., och **Starkenberg, B.,** Träskyddskommitténs fält- och rötkammarförsök. Redogörelse nr. II. (Field and decay-chamber experiments with wood preservatives. Report nr. II.) Meddel. Stat. Skogsforskn.inst., Stockholm, 40 (1951). 1952, nr. 4, p. 1—13, 4 fig.

Riabuschin, P., and **Maljko, B.,** (Wood-destroying fungi and insects — pests of wood and their control.) Sel'skiĭ Stroitel' (USSR) 7. 1952, nr. 3, p. 15—16.

Robinson, T. G., Day-to-day problems of a timber preserving plant. Timber News (Engl.) 60. 1952, 540—541.

Scheffer, Th. C., and **Englerth, G. H.,** Decay resistance of second-growth Douglas-fir. J. Forestry 50. 1952, 439—442.

Schmidt, H., Die Bestimmung der technisch schädlichen Käfer des Holzes und die dazu benötigten optischen Hilfsmittel wie Lupe und Mikroskop. In: Freund, H., Mikroskopie des Holzes und des Papiers (Umschau Verlag, Frankfurt/Main 1951), Teil 2, S. 845—891, 28 Abb.

Schuch, K., Eine Klimatisierungseinrichtung für das Studium ökologischer Fragen bei Holzschädlingen. Ztschr. Pfl.krankh. 59. 1952, 353—358, 3 Abb.

Schulz, G., Ein mykologisches Verfahren zur Bewertung fungizider Grundiermittel mit bläuewidriger Wirkung. Holz als Roh-, Werkstoff 10. 1952, 353—356, 3 Abb.

Sedziak, H. P., The evaluation of two modern wood preservatives. [pentachlorophenol and copper naphthenate] J. Forest Prod. Res. Soc. 2. 1952, 260—268.

Snyder, T. E., How to distinguish wood-boring insects by their frass. Pest Control 20. 1952, 28.

Spiller, D., A note on the toxicity of boric acid to larvae of the two-toothed longhorn, Ambeodontus tristis F. New Zealand J. Sci., Technol. (B) 33. 1952, 493—494, 1 fig.

Stiehm, H., Winter kill: timber damage in San Isabel National Forest wasn't done by beetles; a rare quirk of nature is the cause. Colorado Conserv. 1. 1952, nr. 2, p. 28—29.

Storch, K., Die Holzschutzmittel. Holzw. Jahrb. 1951. 1952, 197—201. — Holz als Roh-, Werkstoff 9. 1951, 168—171.

Straszewska, S., Protection du bois contre les insectes xylophages. Bull. agric. Congo Belge 43. 1952, 809—816.

Suolathi, O., (Prevention of rot in wood.) Teho (Finland) 5. 1952, 249—252.

Suolahti, O., Timber preservation in Finland. Finn. Trade Rev. (Finland) 70/71. 1952, 154, 156.

Technau, G., Holzschutz, warum, womit und wie? Norddtsch. Holzw. 6. 1952, Nr. 3, S. 6—7.

Tewari, M. C., Pande, J. N., and **Purushotham, A.,** Testing of wood preservatives. Part I. Copper-chrome-boric composition. Indian Forestry, Dehra Dun, 78. 1952, 442—453.

Theden, G., Über die Tiefe der Wirksamkeit einer Holzschutzbehandlung mit Quecksilberchlorid. Holzforschung 6. 1952, Nr. 1, S. 1—6, 6 Abb.

Theden, G., und **Becker, G.,** Versuche über Abgabe und Wirkung von Quecksilberchlorid in Dampfform. Holzforschung 6. 1952, 9—12, 1 Abb., 1 Taf.

Theden, G., und **Starfinger, K.,** Versuche mit einem abgewandelten Laboratoriumsverfahren zur kurzfristigen Prüfung der pilzwidrigen Wirksamkeit von Holzschutzmitteln. Holzforschung 6. 1952, 105—110, 2 Abb.

Tiemann, H. D., Basic principles in kiln drying lumber. Wood-working Digest, Wheaton (Illinois), 54. 1952, 67—70, 72, 4 fig.

Tiemann, H. D., What is collapse? How to prevent it in drying wood. Wood-working Digest, Wheaton (Illinois), 54. 1952, 95—98, 100—101, 5 fig.

Verrall, A. F., Recent investigations on avoidance of decay in exterior woodwork. Wood Combined Wood Prod. 57. 1952, nr. 1, p. 52 (Abstr.).

Verrall, A. F., Why use sap stain control chemicals. South. Lumberman, Nashville (Tennessee), 184. 1952, nr. 2309, p. 66, 68.

Wakefield, W. E., The effect of exposure on Douglas fir [Pseudotsuga taxifolia] cross-arms. Canada Dept. Resources, Developm., Forestry Branch, Bull. 104. 1952, 16 p.

Wayman, P., Reports of treatment methods comittees. Proc. amer. Wood-Preserv.'Assoc. Ann. Meetg. 46. 1950.

Wright, E., Sap stain and decay control tests. Timberman 53. 1952, 140—142.

Zezschwitz, v., Hinweise für die praktische Anwendung von Holzschutzmitteln auf Salzbasis. Holz 6. 1952, 41—43.

Zobrist, L., La préservation des grumes de hêtre contre la fente et l'échauffure. Forêt (Suisse) 5. 1952, 105—108.

Zycha, H., Der Schutzanstrich für lagerndes Buchenholz. Holz-Zentralbl. 78. 1952, 1865—1866.

Blowdown and beetle killed timber reaching magnitude of Tillamook burn kill. Lumberman 79. 1952, nr. 11, p. 85—86.

Cause and prevention of blue stain in wood. US Dept. Agric., Div. Forest Path., Techn. Note 225. 1952, 4 p.

Les **cryptogils** et les xylophènes dans la protection des bois. Rev. int. Bois, Paris, 170. 1952, 9—10.

Holzkonservierungsmittel aus Ichthiolkalk. Int. Holzmarkt, Wien, 43. 1952, 10.

Holzschädlinge. Gesunde Pflanzen 4. 1952, 292—293, 6 Abb.

Holzschutz durch Original-Wolman-Salze. Österr. Forst-, Holzw. 7. 1952, 419.

Holzschutzmittelverzeichnis. Prüf.ausschuß Holzschutzm.techn. Zentralst. dtsch. Forstw., Hamburg, 1. 2. 1952.

Klin-drying schedules. Dept. sci. ind. Res., London, Forest Prod. Res. Lab., Princes Risborough, Aylesbury, Leafl. 42 (rev.). 1952, 12 p.

Mold occurrence and effects on wood. [Trichoderma] South. Forestry Exp. Stat. Rept. 1951. 1952, 75—76.

Record of the First Annual Convention of the British Wood Preserving Association, Cambridge, June 25th-27th, 1951.(?) 1952 IV + 196 p., 3 fig., 4 tab. geogr.

Séchage et vieillissement du bois. Bois nat., Saint-Étienne, 23. 1952, nr. 1, p. 19—20; nr. 2, p. 20.

h. Salix

Francke-Grosmann, H., Triebstechende und -schneidende Rüsselkäfer als Schädlinge an Kulturweiden. [Rhynchites-Arten] Nachr.bl. dtsch. Pfl.schutzd., Braunschweig, 4. 1952, 49—51, 4 Abb.

Jauch, C., La »antracnosis« de los sauces cultivados en el Delta del Paraná. [Marssonina Kriegeriana et M. salicicola] Rev. Fac. Agron., Vet., Buenos Aires, 13. 1952, 285—308, 5 fig.

Marchionatto, J. B., Desecación de las ramitas del sauce de adorno. [Botryosphaeria ribis on goat willow] Rev. Fac. Agron., Vet., Buenos Aires, 13. 1952, 218—225, 4 fig.

Mooi, J. Ch., Kanker en takinsterving van de wilg, veroorzaakt door Nectria galligena en Cryptodiaporthe salicina. (Canker and branch die-back of the willow caused by Nectria galligena and Cryptodiaporthe salicina.) Thesis, Univ. Amsterdam 1948. 119 p., 20 fig., 8 tab.

Roberti, D., Contributo alla conoscenza dell'Hyponomeuta rorellus Hb. [an Salix viminalis und S. incana] Boll. Lab. Ent. Agr. »Filippo Silvestri«, Portici, XI. 1952, 220—233, 13 fig.

Disease of the cricket bat willow. [Salix (alba var.) coerulea attacked by Cryptomyces maximus] Quart. J. Forestry (England) 46. 1952, nr. 1, p. 1.

Schädlingsbekämpfung im Korbweidenbau. Landw. Ztschr. Nord-Rheinprov. 119. 1952, 348.

i. Morus

Aoki, K., (Control of the sclerotiose of mulberry.) [Sclerotinia sclerotiorum] J. Plant Prot., Tokyo, 34. 1952, 166—169.

Banerjee, S., and Chatterjee, N. C., Gonocephalum planatum Walker, a new pest in India on mulberry seedling and its control. Sci. and Cult., Calcutta, 18. 1952, 36—37.

Shioda, T., (Weed control on mulberry farm by 2, 4-D application.) Nōrin Jihō (agric., Forestry Bull.) (Japan) 11. 1952, nr. 4, p. 31—33.

9. Zierpflanzen, Garten- und Gewächshauspflanzen
Ornamental plants, garden and greenhouse plants
Plantes horticoles, plantes de décoration et de serre

a. Allgemeiner Teil
General part — Partie générale

Augustijn, C. J., Van Marle, G. S., en Noordam, D., Bestrijding van ziekten en schadelijke dieren bij bloemkwekerijgewassen. Tuinbouwgids, Den Haag, 1952, 535—560, 7 tab.

Baker, K. F., Floricultural diseases are dynamic enemies. South. Florist, Nurseryman 65 (7). 1952, 84—87, 90—91.

Baker, K. F., and Sciaroni, R. H., Diseases of major floricultural crops in California. Calif. State Florists' Assoc. 1952, 57 p.

Beck, Was bedeutet Systox für den Zierpflanzenbau? Zentralbl. dtsch. Erwerbsgartenbau 4. 1952, Nr. 32, S. 7.

Beinert, W., Schädlingsbekämpfung durch Räucherung im Gewächshaus. Gartenwelt 52. 1952, 62—63, 1 Abb.

Berdennikowa, S. P., (Controlling leaf miner on ornamental plants.) Glav. Bot. Sad., Moskwa, Bull. 11. 1952, 74—80.

Berdennikowa, S. P., (Use of benzene hexachloride for control of wireworms in flower culture.) Glav. Bot. Sad., Moskwa, Bull. 12. 1952, 91—97.

Bernard, J., Note sur deux Cacoecia (Lepidoptera, Tortricidae) occasionnellement nuisibles aux cultures florales. Bull. Inst. agron., Stat. Rech. Gembloux 20. 1952, 148—150, 4 fig.

Bewley, W. F., New era in insect control; modern glasshouse methods are speedy and deadly. Nurseryman and Seedsman, London, 114. 1952, 1300—1302.

Bossard, R., Le forçage des plantes ornementales. Baillière, Paris 1952. 230 p.

Bouchet, R. L., Applications nouvelles du 2, 4-dichlorophenoxyacetate de sodium et du dinitrophenate d'ammonium dans le domaine du désherbage sélectif des cultures maraîchères et ornementales. 13th int. hortic. Congr., London, Mimeogr. Pap. 1952, 1—6.

Brannon, D. H., Dont let bugs keep your flowers out of the blue ribbion class. Proc. Washington State hortic. Assoc. 48. 1952, 123—126.

Breny, R., La défense des cultures. XI. Les fumigants des serres; les aérosols. Bull. hortic. (Belgique) 7 (n. ser.). 1952, 315—318.

Brierley, P., Indexing the Beltsville mums. [a practical method for selecting virus-free plants] Florists' Rev., Chicago, 110. 1952, nr. 2843, p. 19—20, 108—111.

Chochlow, D. N., and **Iuzhnyi, Z. M.,** Experiments in combating the cobweb mite. [Tetranychus urticae — benzene hexachloride in the greenhouse] Sad i Ogorod (Orchard and Garden) 9. 1952, 66.

Corkins, J. P., and **Metcalf, H. N.,** Greenhouse tests of a trialkyl thiophosphate insecticide. J. econ. Ent. 45. 1952, 326—329.

Davidson, R. H., Control of pests in the rock garden. Plants and Gard., New York, 8. 1952, 265—269.

Doran, W. L., Effect of treating cuttings of woody plants with both a root-inducing substance and a fungicide. Proc. amer. Soc. hortic. Sci. 60. 1952, 487—491.

Dosse, G., Die Gewächshausspinnmilbe Tetranychus urticae Koch forma dianthica und ihre Bekämpfung. Höfchen-Briefe 5. 1952, 238—267, 13 Abb.

Eichler, W., Die Tierwelt der Gewächshäuser. Akad. Verl.ges. Geest & Portig K.-G., Leipzig 1952. IV + 93 S., 11 Abb.

Feucht, W., Zur Bekämpfung der Weißen Fliege (Trialeurodes vaporariorum Westw.). Nachr.bl. dtsch. Pfl.schutzd., Berlin, NF. 6. 1952, 145—147.

Glatzebrook, J. H., Developments in glasshouse fumigation. New Zealand Gard. 8. 1952, 505—509.

Grainger, J., Damage to glasshouse crops by overmanuring. J. Sci. Food, Agric., London, 3. 1952, 164—172.

Green, H., Gardening under glass: how to fight pests, diseases. Northwest Gard., Homes 20. 1952, nr. 2, p. 17.

Hahmann, K., und **Müller, H. W. K.,** Aktuelle Pflanzenschutzprobleme im Blumen- und Zierpflanzenbau. Gesunde Pflanzen 4. 1952, 29—32, 3 Abb; 59—64, 2 Abb; 128—131, 4 Abb.; 201—206, 2 Abb.

Harries, M. R., Some common flower diseases. Proc. Washington State hortic. Assoc. 48. 1952, 173—175.

Hughes, C. G., The pathology glasshouses. Cane Growers' Quart. Bull. (Queensl.) 16. 1952, 56—57.

Jacks, H., and **Lamb, K. P.,** Glasshouse tests of organic insecticides against aphids on Swedes. New Zealand J. Sci., Technol. (A) 34. 1952, 172—178.

Jefferson, R. N., Insecticide treatments for the corn earworm on certain flower crops. J. econ. Ent. 45. 1952, 137—138.

Jones, W., and **Orchard, W. R.,** Check list of fungus and bacterial organisms causing diseases of ornamental plants in British Columbia coastal areas. Dom. Lab. Plant Path., Saanichton (Brit. Columbia) [1952]. 9 p.

Kerr jr., T. W., Further investigations of insecticides for control of insects attacking ornamental trees and shrubs. J. econ. Ent. 45. 1952, 209—212.

Kerr jr., T. W., Ornamental insect control. 3. Lecanium scales. 4. Eastern tent caterpillar. [Malacosoma americanum] Rhode Island agric. Exp. Stat. Misc. Publ. 40—3. 1952, 9—12; 40—4. 1952, 13—16.

Klougart, A., Diagnostic technique applied to floriculture. 13th int. hortic. Congr., London, Mimeogr. Pap. 1952, 6.

Leiby, R. W., Now the plants bite back. [systemic poison for use on cotton and nonedible ornamental plants] Country Gentleman, Philadelphia, 122. 1952, nr. 6, p. 20.

Linnasalmi, A., Damping-off on herbaceous vegetables and ornamental plants grown under glass in Finland. Ann. bot. Soc. zool.-bot. fenn. »Vanamo« 26. 1952, nr. 1, p. 1—120, 33 fig.

McClellan, W. D., Disease control in greenhouse crops. Florists' Exch., New York, 118. 1952, 10, 15—16, 30, 44.

Marsden, D. H., Some common noninfectious diseases of shade and ornamental trees in New England. Proc. nat. Shade Tree Conf. 1952, 73—79.

Matthews, D. J., Clomerella cingulata on garden stocks. Austr. Plant Dis. Recorder 4. 1952, 22.

Moore, F. J., Some powdery mildews on ornamental plants. Plant Path., London, 1. 1952, 53—55.

Neiswander, R. B., Control of mites on woody ornamental plants. J. econ. Ent. 45. 1952, 373—376.

Neiswander, R. B., and **Rodriguez, J. G.,** Spruce spider mite (Paratetranychus ununguis) control on ornamental plants. Down to Earth, Midland (Michigan), 8. 1952, 12—13.

Noll, J., Erfahrungen bei der Anwendung von Calciumcyanid zur Schädlingsbekämpfung im Gewächshaus. Dtsch. Landw. 3. 1952, 646—647.

Noordam, D., Lycopersicum-virus 3 (tomato spotted wilt) bij enkele bloemisterijgewassen. (Lycopersicum-virus 3 (tomato spotted wilt) on some ornamental plants.) Tijdschr. Plantenziekten 58. 1952, 89—96, 7 fig.

Noordam, D., (Virus diseases of ornamental plants.) Bloemisterij (Nederland) 36 (i. e. 26). 1952, nr. 4, p. 6.

Pritchard, A. E., Malathon on ornamentals. [insecticide] Calif. Agric., Berkeley, 6. 1952, nr. 10, p. 6.

Ramsfjell, T., (Disease resistance of ornamental plants under glass.) Gartneryrket (Norge) 42. 1952, 219—221.

Ramsfjell, T., (The root rot fungus (Thielaviopsis basicola).) [on ornamentals] Gartneryrket (Norge) 42. 1952, 6—7.

Read, W. H., The chemical control of glasshouse pests and diseases. J. Sci. Food, Agric., London, 3. 1952, 337—342.

Roberts, D. A., and **Weber, G. F.,** Seasonal relations of silky thread blight, Rhizoctonia ramicola W. et R. Phytopathology 42. 1952, 287 (Abstr.).

Robson, J. W., Protection against bulb flies. [Merodon equestris, Eumerus spp.] Search, London, 1952, nr. 4, p. 47—52, fig.

Rodale, J. I., Smoking out trouble; new greenhouse fumigant makes short, simple work of injurious insects safely. [smoke from oak leaves] Organic Gardg. 20. 1952, nr. 12, p. 22—23, 55.

Rogoff, W. M., The repellency of chlordane, DDT and other residual insecticides to greenhouse thrips. J. econ. Ent. 45. 1952, 1065—1071, 7 fig.

Roney, J. N., Control insects of flowers, shrubs and shade trees. Arizona agric. Coll. Ext. Circ. 199. 1952, 12 p.

Schenk, P. J., (Virus diseases of ornamentals.) Cult. en Handel 18. 1952, 652—653.

Schmidt, T., Alternaria dianthicola als Erreger einer Blütenknospenfäule in Österreich. Pflanzenschutzberichte, Wien, 9. 1952, 1—16, 6 Abb.

Schmidt, T., Die echten Mehltaupilze im Zierpflanzenbau. Pflanzenarzt, Wien, 5. 1952, Nr. 4, S. 2—3, 1 Abb.

Smith, K. M., Some garden plants susceptible to infection with the cucumber mosaic virus. J. R. hortic. Soc., London, 77. 1952, 19—21.

Smith, K. M., Some virus diseases of vegetables and ornamental plants. 13th int. hortic. Congr., London, Mimeogr. Pap. 1952, 4 p.

Stoddard, E. M., Chemotherapeutic control of Rhizoctonia on greenhouse stock. Phytopathology 42. 1952, 476.

Sylvén, E., Några hortikulturellt anmärkningsvärda gallmyggor. (Some gall midges of horticultural plants.) Stat. Växtskyddsanst., Stockholm, Meddel. nr. 61. 1952, 12 p., 4 fig.

Traversi, B. A., Hay virus que embellecen a las flores. Mundo agríc., Barcelona, 4. 1952, nr. 33, p. 27.

Van der Lek, H. A. A., (Fungus in greenhouses.) Huis en Hof 4. 1952, 208—209.

Van der Zwaard, P., (Spraying equipment.) [greenhouse flowers] Vakbl. Bloemisterij (Nederland) 7. 1952, 3.

Van Klaveren, C., Hulkenberg, A. M., Koppes, S., Bestrijding ziekten en schadelijke dieren bij bloembollenteelt. Tuinbouwgids, Den Haag, 1952, 457—464.

Van Marle, G. S., Voorkoming van ziekten en plagen in de bloemkwekerij. Tuinbouwgids, Den Haag, 1952, 534.

Wagner, Schäden durch Erdbeermilben an Zierpflanzen. Pflanzenschutz, München, 4. 1952, 7—8, 3 Abb.

Wasilewskij, A. P., (Hornet — a pest of ornamental trees.) Glav. Bot. Sad., Moskwa, Bull. 11. 1952, 120.

Wasscher, J., Enige indrukken over de bloementeelt in nord-west Duitsland. (Some impressions of commercial flower growing in northwestern Germany.) Meded. Dir. Tuinbouw, 's-Gravenhage, 15. 1952, 389—418.

Watson, R. C., Seed and soil treatments for prevention of diseases in vegetables and flowers. Idaho agric. Exp. Stat. Mimeogr. Leafl. nr. 119. 1952, 10 p.

Weigel, C. A., and **George, R. A. St.,** Insect pests of flowers and shrubs. US Dept. Agric. Yearb. Agric. 1952, 640—651, 7 fig.

Wolfe, H. S., Factors affecting cold resistance in Florida ornamental plantings. Proc. Florida State hortic. Soc. 64 (1951). 1952, 203—205.

Birds, animals and the garden. Gard.' Chron., London, 131. 1952, 127.

Control of mites on ornamentals. Purdue Univ. agric. Ext. Mimeogr. E-42. 1952, 2 p.

Schädlinge an Sommerblumen und Stauden. Kleingärtner u. Siedler 6. 1952, 102, 2 Abb.

Virus diseases of bulbs. Florists' Rev., Chicago, 110. 1952, nr. 2849, p. 19—20.

b. Spezieller Teil
Special part — Partie spéciale

Amaryllidaceae

Abbiss, H. W., Bulb sterilising makes progress. [hot water treatment of narcissus bulbs] Fruit Grower, London, 2960. 1952, 497—498.

Andison, H., and **Cram, W. T.,** Narcissus bulb fly control with methyl bromide fumigation and ist effect on the flower production of greenhouse-grown narcissus bulbs. Sci. Agric., Ottawa, 32. 1952, 93—98, 1 tab.

Bateman, A. J., Trimorphism and self-incompatibility in narcissus. Nature, London, 170. 1952, 493—494, 1 fig.

Beaumont, A., Observations on the incidence of narcissus stripe in south-west England. [narcissus mosaic virus] Daffodil, Tulip Yearb., London, 18. 1952, 99—100.

Beyer, F., Bekämpfung der Narzissenfliege mit Berührungsgift auf Gamma-Basis. Anz. Schädl.kunde 25. 1952, 149—151.

De Mol van Oud Loosdrecht, W. E., Control of grubs of the daffodil fly in bulbs by carbonic acid and oxygen under pressure. Trans. IXth int. Congr. Ent., Amsterdam, 1 (1951). 1952, 995—998.

De Mol van Oud Loosdrecht, W. E., Die Vernichtung der Maden der Narzissenfliege (Lampetia equestris F.) in den Zwiebeln, durch Kohlensäure und Sauerstoff unter Druck. Anz. Schädl.kunde 25. 1952, 10—13.

Drayton, F. L., and Groves, J. W., Stromatinia narcissi, a new sexually dimorphic discomycete. Mycologia, Lancaster, 44. 1952, 119—140, 8 fig.

Feder, A. M., Systox for nematode in daffodils. [Ditylenchus dipsaci] New York State Flower Growers' Bull. 82. 1952, 3—4.

Fraser, L. R., Physoderma on amaryllis. Austr. Plant Dis. Recorder 4. 1952, 22.

Goodey, J. B., Rotylenchus coheni n. sp. (Nematoda: Tylenchida) parasitic on the roots of Hippeastrum sp. J. Helminth., London, 26. 1952, nr. 2/3, p. 91—96.

Hastings, R. J., Bosher, J. E., and Newton, W., The revival of the narcissus bulb eelworm, Ditylenchus dipsaci (Kuhn) Filipjev, from sublethal hot water treatments. Sci. Agric., Ottawa, 32. 1952, 333—336.

Kemper, H., Larven der Narzissenfliege (Lampetia-Merodon equestris). Schädlingsbekämpfung 44. 1952, 42—43, 2 Abb.

McClellan, W. D., Effect of temperature on the severity of Fusarium basal rot in narcissus. Phytopathology 42. 1952, 407—412, 3 fig.

Ramsfjell, T., Sjukdommer pa tulipan og narciss. (Diseases of tulips and narcissus.) Stat. Plantevern, Stjordal (Norge), Flygeskr. 42 (2. ed.). 1952, 8 p.

Narcissus pests. Minist. Agric., Fish., London, Bull. nr. 51. 1952, IV + 36 p., 1 fig., 5 tab.

USDA develops method to protect narcissus bulbs from insect pest. Agric. Bull. (Shell) ADB. 123. 1952, 1 p.

Araceae

Ark, P. A., Starr, M. P., and Sutton, D. D., Bacterial chalk rot of yellow and pink callas. [Zantedeschia elliottiana, Z. rhamanni] Phytopathology 42. 1952, 320—322.

Mezzetti, A., Il marciume del pedale della calla prodotto dal Bacterium aroideae (Town.) Stapp in Italia. (Basal rot of the calla lily produced by Bacterium aroideae (Town.) Stapp in Italy.) [Zantedeschia aethiopica] Boll. Staz. Pat. veg., Roma, 8 (ser. 3) (1950). 1952, 45—58, 4 fig.

Begoniaceae

Allen, M. W., and Raski, D. J., Soil fumigation to control root-lesion nematode, Pratylenchus sp., in tuberous begonia. Plant Dis. Reptr. 36. 1952, 201—202.

Andrén, F., Besprutningsförsök mot begoniamjöldagg. Växtskyddsnotiser, Stockholm, 16. 1952, 57—59, 1 fig.

Schmidt, E., Die Mehltaubekämpfung auf Lorraine-Begonien. Schweiz. Gärtnerztg. 55. 1952, nr. 3.

Cactaceae

Higgins, V., The cultivation of cacti and succulent plants. J. R. hortic. Soc., London, 77. 1952, 351—360.

Weber, F., und Kenda, G., Cacteen-Virus-Eiweißspindeln. [Rhipsalis cereuscula auf Pereskia aculeata] Protoplasma, Wien, 41. 1952, 111—120.

Weber, F., und Kenda, G., Die Viruskörper von Opuntia subulata. Protoplasma, Wien, 41. 1952, 378—380, 6 Abb.

Weber, F., Kenda, G., und Thaler, I., Viruskörper in Kakteen-Zellen. Protoplasma, Wien, 41. 1952, 277—286.

Caryophyllaceae

Ames, R. W., and Thornberry, H. H., Carnation mosaic virus: Properties and electron microscopy. [Dianthus barbatus] Phytopathology 42. 1952, 289—291, 1 fig.

Chaplin, P., Yellows are preventable, but not curable. [carnations] Grower, London, 37. 1952, 147.

Davidsson, I., (Some diseases of chrysanthemums and carnations.) Ársrit Íslenska Gardyrkjufelag 1952, 29—32.

Di Caro, S., (Alternariosis of carnations caused by Alternaria dianthicola (Neerg.), a new species for Italy.) Riv. Ortoflorofruttic. ital. 36. 1952, 235—240.

Dickens, L. E., and Thomas, W. D., Results of spray tests for the control of carnation rust. J. Colorado-Wyoming Acad. Sci. 4. 1952, 73 (Abstr.).

Ernst, D., Contribution à la lutte contre les maladies des œillets. Réveil Agric. (France) 61. 1952, 327.

Gilpatrick, J. D., and Weintraub, M., An unusual type of protection with the carnation mosaic virus. Science, Lancaster, 115. 1952, 701—702.

Guba, E. F., Breeding carnations for resistance to Fusarium wilt. Phytopathology 42. 1952, 112—113 (Abstr.).

Holtzmann, O. V., The complexity of the Fusarium problem. [on Dianthus] Bull. Colorado Flower Growers Assoc. 30. 1952, 3—4.

Holtzmann, O. V., Nature of pathogenicity in bacterial wilt [Pseudomonas caryophylli] of carnations. J. Colorado-Wyoming Acad. Sci. 4. 1952, 74—75 (Abstr.).

Holtzmann, O. V., The nature of the wilt of carnations caused by Pseudomonas caryophylli (bacteral wilt). Bull. Colorado State Flower Growers Assoc. 32. 1952, 1—3.

Kemp, P. J., and **Way, J. M.,** Constant water level system for carnations in Sweden. Fruit Grower, London, 2954. 1952, 217—218.

Lewis, C. E., Stewart, R. N., and **Jeffers, W. F.,** Carnation wilt losses; preventive program requires effective inoculation techniques. Florists' Rev., Chicago, 109. 1952, nr. 2827, p. 25—26.

Lewis, C. E., Stewart, R. N., and **Jeffers, W. F.,** Studies on inoculation of carnations with Pseudomonas caryophylli. Phytopathology 42. 1952, 342.

Lewis, C. E., Stewart, R. N., and **Jeffers, W. F.,** Tests give hope in fight on carnation wilt (Pseudomonas caryophylli) — avoid high temperatures, tissue injury. Florists' Exch., New York, 118. 1952, nr. 6, p. 9, 44.

Moreau, M., Une cause nouvelle de dépérissement des œillets à Nice: la maladie à sclérotes. [Selerotium bataticola (Macrophomina phaseoli)] Compt. rend. Acad. Sci., Paris, 234. 1952, 2641—2643.

Sarejanni, J. A., Un Phytophthora du collet des œillets. Ann. Inst. phytopath. Benaki 6. 1952, 32—36.

Scaramuzzi, G., L'alternariosi dei petali di garofano. (Alternariosis of carnation petals.) [Alternaria dianthicola] Ann. Sperim. agr., Roma, 6 (n. ser.). 1952, 1587—1595, 4 fig., 1 tab. col.

Scaramuzzi, G., Una tipica »alternariosi« delle piante di garofano. [Alternaria dianthi, A. dianthicola] Not. Mal. Piante nr. 18. 1952, 37—41.

Schmidt, T., Nelkenkrankheiten und ihre Ursachen. Pflanzenarzt, Wien, 5. 1952, Nr. 11, S. 5—6; Nr. 12, S. 6.

Thomas, W. D., The effect of aster yellows virus on carnation blossoms. J. Colorado-Wyoming Acad. Sci. 4. 1952, 68.

Thomas, W. D., Baker, R. R., Zoril, J. G., and **Holtzmann, O. V.,** The effect of mosaic on the yield and quality carnations. Bull. Colorado Flower Growers Assoc. 28. 1952, 2—4.

Thomas jr., W. D., and **Baker, R. R.,** Root transmission of carnation mosaic virus. Phytopathology 42. 1952, 21 (Abstr.).

Thomas jr., W. D., and **Baker, R. R.,** Symptomless carriers of Fusarium in the carnation. Phytopathology 42. 1952, 21 (Abstr.).

Trottmann, M. M., L'œillet et l'anguillule des racines. [Heterodera marioni] Phytoma, Paris, 5. 1952, nr. 43, p. 25—26, 2 fig.

Van Slogteren, D. H. M., The preparation of antisera against carnation mosaic virus. Proc. Conf. Potato Virus Dis., Wageningen-Lisse, 13.—17. 8. 1951. 1952, 88—89. (Lab. Bloembollenonderz. Lisse nr. 94.)

Wasscher, J., De betekenis van de N. A. K. S. voor de cyclamen- en anjerteelt. (The value of the N. A. K. S. [General Netherlands Inspections Service for Ornamental Plants] in the cultivation of cyclamen and carnations.) Meded. Dir. Tuinbuow,'s-Gravenhage, 15. 1952, 577—585, fig.

Virusfreie Nelkenpflanzen sind überlegen. Gartenwelt 52. 1952, 62.

Compositae

Arx, J. A. v., Meeldauw op Cineraria en andere sierplanten. (Mehltau auf Cineraria und anderen Zierpflanzen.) Tijdschr. Plantenziekten 58. 1952, 10—13, 2 fig.

Arx, J. A. v., De voetziekte van Gerbera, veroorzaakt door Fusarium oxysporum Schlecht. (Eine Fusarium-Fußkrankheit bei Gerbera.) Tijdschr. Plantenziekten 58. 1952, 5—9, 3 fig.

Becks, A., Le chrysanthème: sa culture, ses ennemis. Bull. hortic. (Belgique) 7 (n. ser.). 1952, 77—83.

Blanton, F. S., Eutreta sparsa found on chrysanthemum (Tephritidae). Ent. News. Philadelphia, 43. 1952, 75.

Böhm, O., Beachtet das Chrysanthemenälchen! Pflanzenarzt, Wien, 5. 1952, Nr. 9, S. 4—5, 3 Abb.

Bourn, N., Killing chrysanthemum eelworms in five minutes. Grower, [London], 38. 1952, 1148—1149.

Brierley, Ph., Exceptional heat tolerance and some other properties of the chrysanthemum stunt virus. Plant Dis. Reptr. 36. 1952, 243—244.

Brierley, Ph., Indexing the Beltsville mums; a practical method of selecting virus-free plants. Bull. Chrysanthemum Soc. Amer. 20. 1952, nr. 3, p. 29—35.

Brierley, Ph., A method of selecting virus-free plants. [chrysanthemums] South. Florist, Nurseryman 65. 1952, nr. 10, p. 82—87.

Brierley, Ph., Steps to the goal of virus-free mums. [on chrysanthemum] Florists' Exch., New York, 118. 1952, nr. 21, p. 9, 45.

Cohen, M., Contarinia chrysanthemi Kieffer — a new gall midge pest of Shasta Daisy. [Chrysanthemum maximum] Plant Path., London, 1. 1952, 51—53, 1 tab.

Davidsson, I., (Some diseases of chrysanthemums and carnations.) Ársrit Íslenska Gardyrkjufjelag 1952, 29—32.

Davis, S. H., Diseases of chrysanthemums. Bull. nat. Chrysanthemum Soc. 8 (3, Suppl.). 1952, 16—20.

Doepel, R. F., Entyloma leaf spot of English marigold. [Calendula] J. Agric. west. Austr. 1 (n. ser.). 1952, 501—502, fig.

Dröge, C., Chlorosis of chrysanthemums. Vakbl. Bloemisterij (Nederland) 7. 1952, 10.

Elter, L., Les maladies à virus du dahlia. Courrier hortic., Bruxelles, 14. 1952, 317—318.

Fleischmann, C., Systox, ein Mittel zur Ehrenrettung der Cinerarien. Zentralbl. dtsch. Erwerbsgartenbau 4. 1952, Nr. 24, S. 3.

Gowen, A. S., Winter protection in Minnesota. Bull. nat. Chrysanthemum Soc. 8 (3, Suppl.). 1952, 38—39.

Hoffman, R. F., Bloom protection. Bull. nat. Chrysanthemum Soc. 8 (3, Suppl.). 1952, 31—34.

Howles, R., Chrysanthemum mosaic disease. Cheshunt (Herts.) Exp. Res. Stat. Ann. Rept. 1951. 1952, 37—40, fig.

Huertos, M. R., Virus »mosaico de la zinnia«. Microbiol. españ., Madrid, 5. 1952, 155—161, 10 fig.

Jain, A. C., and **Nema, K. G.,** Blossom blight of dahlia. [Choanephora infundibulifera] Curr. Sci., Bangalore, 21. 1952, 71—72.

Jefferson, R. N., and **Eads, C. O.,** Control of leaf miners and other insect pests of asters. J. econ. Ent. 45. 1952, 476—481.

Keller, J. B., Chrysanthemums carry viruses. Farm Res. [New York State Stat.) 18. 1952, nr. 4, p. 10.

Kiplinger, D. C., Soil treatment for pest control. Bull. nat. Chrysanthemum Soc. 8 (3, Suppl.). 1952, 26—31.

Lemke, W., Ein für Gaillardia neuer Brandpilz. [Entyloma gaillardiae] Ber. bayer. bot. Ges. 29. 1952, 100.

Lihnell, D., »Vittoppighet« hos tagetes. Växtskyddsnotiser, Stockholm, 16. 1952, 59—61, 2 fig.

Limasset, P., Cornuet, P., et **Martin, C.,** Le diagnostic sérologique de la mosaïque du dahlia. Proc. Conf. Potato Virus Dis., Wageningen-Lisse, 13.—17. 8. 1951. 1952, 59—62. (Lab. Bloembollenonderz. Lisse nr. 94.)

Maramorosch, K., Direct evidence for the multiplication of aster-yellows virus in its insect vector. Phytopathology 42. 1952, 59—64, 4 fig.

Maramorosch, K., New evidence for multiplication of aster-yellows virus in its vector. Phytopathology 42. 1952, 14 (Abstr.).

Martin, C., Améliorations apportées à l'extraction du virus de la mosaïque du dahlia (Marmor dahliae) Holmes. Ann. Épiphyties, Paris, 3. 1952, 395—396.

Mayer, Neue Möglichkeiten in der Bekämpfung von Blattälchen und Gallmücken an Chrysanthemen. Dtsch. Gärtnerpost 1952, Nr. 10.

Messing, J. H. L., and **Owen, O.,** The effects of some acute mineral deficiencies on glasshouse chrysanthemums. Cheshunt (Herts.) Exp. Res. Stat. Rept. 1950. 1951, 57—60.

Morel, G., et **Martin, C.,** Guérison de dahlias atteints d'une maladie à virus. Compt. rend. Acad. Sci., Paris, 235. 1952, 1,324—1,325.

Newhall, A. G., Chrysanthemum foliage injury with methylbromide. Bull. Chrysanthemum Soc. Amer. 20. 1952, nr. 3, p. 12.

Noordam, D., Verticillium wilt of chrysanthemums. Vakbl. Bloemisterij (Nederland) 7. 1952, 18.

Noordam, D., Virusziekten bij chrysanten in Nederland. (Virus diseases of Chrysanthemum indicum in the Netherlands.) Phytopath. Lab. »Willie Commelin Scholten«, Baarn, [1952?], 123—189, 28 fig. — Tijdschr. Plantenziekten 58. 1952, 121—190, 7 fig., 4 tab. col. (Meded. Inst. plantenziektenkdg. Onderz., Wageningen, nr. 46).

Piquer, G., Le nématode ou anguillule du chrysanthème. Bull. hortic. (Belgique) 7 (n. ser.). 1952, 291—296.

Pittman, H. A. J., Leaf nematode disease in chrysanthemums. J. Dept. Agric. Victoria 50. 1952, 90—92.

Prasad, N., Fire blight of Cosmos — a bacterial disease incited by Erwinia cosmovora n. sp. Curr. Sci., Bangalore, 21. 1952, 17.

Prentice, I. W., Chrysanthemum flower distortion survey, 1951. Plant Path., London, 1. 1952, 77—80, 1 fig.

Scaramuzzi, G., Intorno ad una malattia virus-simile della Cineraria. (A virus-like disease of Cineraria.) Not. Mal. Piante nr. 21. 1952, 61—64.

Schread, J. C., Chrysanthemum gall midge. [Diarthronomyia hypogaea Low] Connecticut agric. Exp. Stat. Bull. 554. 1952, 6 p., 2 fig.

Southey, J. F., Unusual chrysanthemum eelworm symptoms. [Aphelenchoides ritzema-bosi] Plant Path., London, 1. 1952, 48—49, 1 fig.

Spencer, S. J., The way to healthier dahlias. Nurseryman and Seedsman 115. 1952, 1174—1176.

Van der Linden, L., (Parasites in chrysanthemum culture. Tuinbouwberichten 16. 1952, 187—189.

Van Raalte, D., (Dahlia diseases.) Cult. en Handel 18. 1952, 397—398.

Ward jr., E., Winter protection of chrysanthemums in the South. Bull. nat. Chrysanthemum Soc. 8 (3, Suppl.). 1952, 37—38.

Weaver, C. R., and **Olson, C. J.,** Chrysanthemum crop production speeded up 21 to 30 days by controlling Lygus bug. [Lygus oblineatus] Ohio Farm, Home Res. (Ohio Stat.) 37. 1952, 26—27.

Zobrist, L., und **Bouchet, R.,** Chrysanthemum-Älchen, ein gelöstes Problem. Schweiz. Gärtnerztg. 1952, Nr. 15.

Chrysanthemums. Minist. Agric., Fish., London, Bull. nr. 92. 1952, 3. ed., 50 p., 9 fig., 8 tab., 2 tab. col.

Testing for chrysanthemum mosaic. Gard.' Chron., London, 132. 1952, 14.

A virus disease of China aster. Gard.' Chron., London, 132. 1952, 214.

Virus-free dahlias. Fruit Grower, London, 1952, nr. 2950, p. 69.

Crassulaceae

Gainor, C., and **Price, W. C.,** Production of galls in Kalanchoë by variants of Agrobacterium tumefaciens differing in colonial morphology. Phytopathology 42. 1952, 8—9 (Abstr.).

Heimann, M., Verbrennungen an Kalanchoë durch ultraviolette Strahlen. Gartenwelt 52. 1952, 113, 2 Abb.

Pilet, P.-E., Problème hormonal concernant l'Endophyllum sempervivi Lév. parasite du Sempervivum tectorum. Ber. Schweiz. bot. Ges. 62. 1952, 269—274, 3 fig.

Cruciferae

Doepel, R. F., Black rot of stocks (Matthiola). [Xanthomonas incanae] J. Dept. Agric. West. Austr. 1 (ser. 3). 1952, 835—836.

Fisher, E. E., Black rot of stocks (Matthiola incana). J. Dept. Agric. Victoria 50. 1952, 183.

Ericaceae

Breakey, E. P., Insect pests of rhododendrons and azaleas. Washington agric. Exp. Stat. Circ. 182. 1952, 8 p.

Foret, J. A., Chlorosis of azaleas. Iowa State Coll. J. Sci. 26. 1952, 202—203.

Gilgut, C. J., Dead azaleas this spring! [frost injuries] Amer. Nurseryman, Rochester, 95. 1952, nr. 7, p. 9.

Gilgut, C. J., Flower growers! Protect azaleas in the fall. Res. in Rev. (Massachus.) 1. 1952, nr. 2, p. 12—13, fig.

Gould, C. J., and **Eglitis, M.,** Rhododendron disease problems in Washington. Arboretum Bull., Seattle (Wash.), 15. 1952, 18—19.

Jeffers, W. F., Observations on occurrence of azalea petal blight in Maryland. [Ovulinia azaleae] Plant Dis. Reptr. 36. 1952, 301.

Lee, F. P., The azalea handbook. Nat. hortic. Mag., Washington, 31. 1952, Spec. nr., p. 148.

Martin, V. v., Die Schädlingsbekämpfung. (Rhododendron] Gartenwelt 52. 1952, 168.

Nearing, G. C., The spraying of rhododendrons. Rhododendron Yearb., London, 7 (1953). 1952, 94—95.

Smith, C. F., and **Farrier, M. H.,** Notes on azalea mites. Proc. Assoc. south. agric. Workers 49. 1952, 84.

Stoutemas, E., Will USA permit importation of azaleas grown in peat? Tuinbouwberichten 16. 1952, 61—62.

Westgate, P. J., Azalea leaf tip burn; scientist finds artesian well water may cause it. Florida Grower 60. 1952, 26.

Geraniaceae

Beaumont, A., Diseases of pelargoniums. Gard.' Chron., London, 131. 1952, 158—159.

Gigante, R., Una forma di mosaico del geranio. Boll. Staz. Pat. veg., Roma, 8 (ser. 3) (1950). 1952, 213—219, 2 fig.

Hellmers, E., Bacterial leaf spot of pelargonium (Xanthomonas pelargonii (Brown) Starr et Burkholder) in Denmark. Trans. danish Acad. techn. Sci. nr. 4. 1952, 40 p., 11 fig.

Sarrabay, J., Remarques sur la dégénérescence du géranium rosat (Pelargonium) dans la région Blidéenne. Rev. agric. Afr. Nord 50. 1952, 335—336.

Torgeson, D. C., Observations of Verticillium wilt of geranium in Oregon. [on Pelargonium hortorum] Plant Dis. Reptr. 36. 1952, 51.

Gesneriaceae

Ford, A., Root and crown rots of African violets. Afr. Violet Mag. 6. 1952, nr. 2, p. 20, 55.

Harvey, H. G., A parathion dip for mite. Afr. Violet Mag. 5. 1952, nr. 3, p. 8—11.

Hickmann, D., and **Culbert, J. R.,** African violets (Saintpaulia ionantha) in the home. Illinois Coll. Agric. Circ. 695. 1952, 24.

Schulz, P., The case of the unhappy violet. [crown rot caused by fungi] Gloxinian 2. 1952, nr. 3, p. 10—11.

Wills, B., You don't have to bake or steam your soil. [Soilene] Afr. Violet Mag. 5. 1952, nr. 3, p. 48.

Iridaceae

Anderson, C. G., Young, R. A., and **Palm, E. T.,** Curvularia on gladiolus in Oregon. Plant Dis. Reptr. 36. 1952, 474, 2 fig.

Bald, J. G., Stomatal droplets and the penetration of leaves by plant pathogens. [Pleospora on gladiolus] Amer. J. Bot. 39. 1952, 97—99.

Bald, J. G., and **Jefferson, R. N.,** Injury to gladioli associated with the root mite, Rhizoglyphus rhizophagus (Bks.). Plant Dis. Reptr. 36. 1952, 435—437, 2 fig.

Beaumont, A., Crocus diseases. Gard.' Chron., London, 131. 1952, 105.

Bing, A., Report on weed control research. Bull. north amer. Gladiolus Council 33. 1952, 13—15.

Breakey, E. P., and **Gould, C. J.,** Wireworm control on Wedgewood iris. J. econ. Ent. 45. 1952, 538.

Bridgmon, G. H., Gladiolus as a virus reservoir. Phytopathology 42. 1952, 65—70, 2 fig.

Brierley, Ph., Evidence on the significance of cucumber mosaic and tobacco ringspot viruses in gladiolus. Plant Dis. Reptr. 36. 1952, 48—50, 1 fig.

Cowperthwaite, W. G., Progress report on weed control in gladiolus. Proc. south. Weed Conf. 5. 1952, 170—172.

Dawson, C. P., Premerge controls weeds in gladiolus. Down to Earth, Midland (Michigan), 8. 1952, nr. 3, p. 9.

De Figueiredo, E. R., (Pests of gladiolus and means of control.) Lavoura e Crição, Rio de Janeiro, 7. 1952, nr. 42, p. 48—49.

Düzgüneş, P. Z., Taeniothrips simplex Morison (Gladiolus thrips). Bitki Koruma Bült. (Bull. Plant Prot.), Ankara, 1952, nr. 3, p. 27—30, 3 fig.

Dustan, A. G., Standard control recommendations for the gladiolus thrips [Taeniothrips simplex]. Canada Sci. Serv., Div. Ent., Processed Publ. 69. 1952, 5 p.

Fraser, L. R., Fusarium yellows of gladiolus. Austr. Plant Dis. Recorder 4. 1952, 22.

Fraser, L. R., Sclerotinia root rot of gladiolus. Austr. Plant Dis. Recorder 4. 1952, 48—49.

Fry, P. R., Virus diseases of gladioli. Sci. Congr. R. Soc. New Zealand Rept. 7 (1951). 1952, 70 (Abstr.).

Gould, C. J., and **McLean, D. M.,** Black rot of iris, tulip, and hyacinth bulbs. Phytopathology 42. 1952, 514 (Abstr.).

Haasis, F. A., Soil fumigation with chlorobromopropene for control of Sclerotium rolfsii in Dutch iris. Plant Dis. Reptr. 36. 1952, 475—478.

Holm, L. G., and **Beck, G. E.,** Chemical weed control in gladiolus plantings. Wisconsin Hortic. 42. 1952, 190.

Limber, D. P., Sori of gladiolus smut in the white flesh of gladiolus corms. [Urocystis gladiolicola] Phytopathology 42. 1952, 578, 1 fig.

Magie, R. O., Breeding disease resistant gladiolus. Bull. north amer. Gladiolus Council 30. 1952, 78—79, 81—83.

Magie, R. O., Breeding gladiolus for disease resistance. Proc. Florida State hortic. Soc. 64 (1951). 1952, 210—212.

Magie, R. O., Smith, F. F., and **Brierley, Ph.,** Occurrence of western aster yellows virus infection in gladiolus in Eastern United States. Plant Dis. Reptr. 36. 1952, 468—470, 1 fig.

Marshall jr., B. H., Relation of wound periderm in gladiolus corms to penetration by Fusarium oxysporum f. gladioli. Phytopathology 42. 1952, 342.

Nelson, R., and **Mooar, M.,** Life history of the Stemphylium that causes red leaf spot of gladiolus. Phytopathology 42. 1952, 363—366, 2 fig.

Palm, E. T., Effects of certain mercurial fungicides on gladiolus plants. Phytopathology 42. 1952, 518 (Abstr.).

Palm, E. T., and **Young, R. A.,** Observations of gladiolus abnormalities in Oregon in 1951. Plant Dis. Reptr. 36. 1952, 108—109, 4 fig.

Protsenko, E. P., (Preservation of gladiolus bulbs.) [Botrytis, Fusarium] Bull. Glav. Bot. Sad., Moskwa, 11. 1952, 80—84.

Robertson, N., Further investigation of the »Fusarium yellows« disease of gladioli. Gladiolus Annu. 1952, 26—31.

Scurti, J., Contributo alla conoscenza del giallume dei gladioli. (A contribution to the knowledge of gladiolus yellows.) [Fusarium orthoceras var. gladioli] Ann. Sperim. agr., Roma, 6 (n. ser.). 1952, 1705—1714, 2 tab.

Scurti, J., L'ossichinolina nella lotta contro la malattia del giallume dei gladioli. (Oxyquinoline in the control of gladiolus yellows.) [Fusarium orthoceras var. gladioli] Ann. Sperim. agr., Roma, 6 (n. ser.). 1952, 1715—1720.

Stuart, N. W., Effects of storage temperatures on the forcing responses of Easter lily and bulbous iris. 13th int. hortic. Congr., London, Mimeogr. Pap. 1952, 8 p.

Tomlinson, J. A., Root rot of crocus caused by Pythium ultimum. Plant Path., London, 1. 1952, 50, 1 tab.

Torrie, J. H., Control of insects and diseases of gladiolus. Wisconsin Hortic. 42. 1952, 191—192.

Young, R. A., and **Palm, E. T.,** Control of gladiolus diseases in Oregon. Oregon agric. Exp. Stat. Circ. Inform. 507. 1952, 6 p.

Den **Gladiolen-Thrips** jetzt bekämpfen! Mitt.bl. Landesverb. Gartenbau, Landw. Berlin 2. 1952, 106.

Gladiolus yellows in N. S. W. [Fusarium orthoceras var. gladioli] Agric. Gaz. New South Wales 63. 1952, 85—87, 5 fig.

Leguminosae

Krishnaswami, S., and **Rao, K. R. N.,** A note on the mealy bug, Pseudococcus virgatus Cockerell, on Gliricidia maculata H and B and its control. Madras agric. J. 39. 1952, 600—604.

Mooi-Bok, M. B., Het Thielaviopsis-wortelrot van Lathyrus odoratus L. (bodemmoeheid). (Thielaviopsis-rootrot of Lathyrus odoratus L. (soil sickness).) Meded. Inst. plantenziektenkdg. Onderz., Wageningen, nr. 48. 1952, 71 p., 16 fig., 4 tab.

Mukherjee, S. K., Abnormal microsporocytes in Caesalpinia pulcherrima Sw. Curr. Sci., Bangalore, 21. 1952, 290.

Stepanow, W. N., Nowyj wid slatki wredjaschtschej posadkam sheltoj akazii w polesaschtschitnych polosach Stalingradskoj oblasti. (Eine neue Art von Prachtkäfer — Buprestidae —, die die Anpflanzungen des Erbsenstrauchs in den feldschützenden Waldstreifen des Gebiets Stalingrad beschädigen.) Zool. Žh. (Zool. J.) 31. 1952, 272—275.

Liliaceae

Baruah, H. K., and **Baruah, P.,** On the biology of Sclerotium delphinii Welch attacking garden lilies. Sci. and Cult., Calcutta, 17. 1952, 304—305.

De Mol van Oud Loosdrecht, W. E., Röntgenbestrahlungsexperimente mit Hyazinthen und Tulpen. Der Einfluß auf die Entwicklung des Pollens und der Sprosse. Cellule, Lierre (Belgique), 55. 1952, 23—128.

Gould, C. J., and **McLean, D. M.,** Black rot of iris, tulip, and hyacinth bulbs. Phytopathology 42. 1952, 514 (Abstr.).

Hartzell, A., Two insect pests of lilies. [Argyrotaenia velutinana, Polia subjuncta] North amer. Lily Soc. Lily Yearb. 5. 1952, 128.

Heinze, K., Die Maiglöckchenlaus. Gartenwelt 52. 1952, 24, 1 Abb.

Keyder, S., Rhizoglyphus hyacinthi. (Engl. Zusammenfassung.) Tomurcuk, Istanbul, 1952, nr. 11, p. 11—13.

López Navas, J. T., Algo sobre el cultivo de la yuca en Venezuela. (Notes on the cultivation of Yucca in Venezuela.) [Virus] Agric. venezol., Caracas, 17. 1952, nr. 154, p. 14—16, 1 fig.

Miles, P., An investigation into the effects of mineral deficiencies on the Easter lily. [Lilium longiflorum] Lily Yearb., London, 16 (1953). 1952, 79—83, 2 tab.

Odom, R. E., Fertilizers and leaf burn in croft lilies. South. Florist, Nurseryman 64. 1952, nr. 51, p. 86—87.

Pape, H., Erfahrungen mit der Heißwasserbeizung von Maiblumenkeimen. Mitt. Biol. Zentralanst. H. 74. 1952, 45—49, 1 Abb.

Petersen, J., (»Blind« tulips produced through heat.) Gartnertidende, København, 68. 1952, 322—324.

Plate, H.-P., Erfahrungen mit einer neuen Tulpenkrankheit. [Virus] Mitt.bl. Landesverb. Gartenbau, Landw. Berlin 2. 1952, 102, 2 Abb.

Ramsfjell, T., Sjukdommer pa tulipan og naciss. [diseases of tulips and narcissus] Stat. Plantevern, Stjørdal (Norge), Flygeskr. 42. 1952, 2. ed., 8 p.

Seeley, J. G., and **De Cardona Velasquez, D.,** The effect of fertilizer applications on leaf burn and growth of croft lilies. Proc. amer. Soc. hortic. Sci. 60. 1952, 459—472, 2 fig.

Slate, G. L., What to do about lily troubles? Flower Grower (New York) 39. 1952, nr. 8, p. 31, 46—47.

Stuart, N. W., Effects of storage temperatures on the forcing responses of Easter lily and bulbous iris. 13th int. hortic. Congr., London, Mimeogr. Pap. 1952, 8 p.

Stuart, N. W., Skou, W., and **Kiplinger, D. C.,** Further studies on causes and control of leaf scorch of croft Easter lily. Proc. amer. Soc. hortic. Sci. 60. 1952, 434—438.

Uschdraweit, H. A., Eine Viruskrankheit bei Treibtulpen. Gartenwelt 52. 1952, 170—171, 1 Abb.

Vlag, A. F., De bestrijding van het vuur in tulpen (Botrytis tulipae Lind.). (The control of tulip mould or fire.) Meded. Dir. Tuinbouw, Wageningen, 15. 1952, 101—108.

Weidner, H., Die Tagliliengallmücke Contarinia quinquenotata (F. Löw) Kieffer. Zool. Anz. 148. 1952, 231—243, 10 Abb.

Wright, P. H., Basal rot in lilies. Horticulture (nat. ed.) 30. 1952, 276.

Magnoliaceae

Jenkins, A. E., and **Miller, J. H.,** A new species of Sphaceloma on magnolia. J. Washington Acad. Sci. 42. 1952, 323—325, 1 fig.

Tryon, E. H., and **True, R. P.,** Blistershake of yellow-poplar (Liriodendron tulipifera). West Virginia agric. Exp. Stat. Bull. 350. 1952, 15 p.

Malvaceae

Čamprag, D., (Some observations about the pests on marsh-mallow.) Saschtita Bilja (Plant Prot.), Beograd, nr. 10. 1952, 56—61.

James, M. O., and Plakidas, A. G., Two new Phytophthora diseases of ornamental Hibiscus. Phytopathology 42. 1952, 144—146, 2 fig.

Oleaceae

Beale, J. H., and Beale, H. P., Transmission of a ringspot-virus disease of Syringa vulgaris by grafting. Contrib. Boyce Thompson Inst. 17. 1952, nr. 1, p. 1—6, 2 fig.

Beaumont, A., Diseases of lilacs. Gard.' Chron., London, 132. 1952, 184—185.

Marshall jr., B. H., Cane blight of forsythia in Maryland. [Botryosphaeria ribis] Plant Dis. Reptr. 36. 1952, 440—441, 2 fig.

Ribaldi, M., Su di una caratteristica maculatura fogliare del ligustro (Ligustrum vulgare L.). (On a characteristic leaf spot of privet (Ligustrum vulgare L.).) [Ramularia ligustrina] Ann. Sperim. agr., Roma, n. ser. 6. 1952, 95—100, 5 fig.

Schmidt, G., Beobachtungen an dem Fliederknospenrüßler (Otiorrhynchus lugdunensis Boh.) Nachr.bl. dtsch. Pfl.schutzd., Braunschweig, 4. 1952, 81—82, 2 Abb.

Schmidt, T., Epidemieartiges Auftreten von Oidium syringae in Österreich. Pflanzenschutzberichte, Wien, 8. 1952, 22.

Van Marle, G. S., Bladrollers in seringen. (Leafrollers on lilacs.) Tijdschr. Plantenziekten 58. 1952, 191—196.

Orchidaceae

Alvarez García, L. A., A new disease of orchids in Puerto Rico: Pythium black rot. Puerto Rico Univ. J. Agric. 35. 1952, 126—135.

Capps, H. W., A new genus (Potosa) and species (P. rufofascialis) associated with orchids from Mexico (Lepidoptera: Chrysaudigae). Bull. South. Calif. Acad. Sci. 51. 1952, 1—3.

Feder, W. A., Transit rot of Vanda orchid blossoms. Phytopathology 42. 1952, 373—376, 4 fig.

Gold, A. H., and Jensen, D. D., Some apparent virus relationships in several orchid genera, based on electron microscopy. Phytopathology 42. 1952, 9 (Abstr.).

Ikeda, W. S., The Cattleya fly (Eurytoma orchidearum). Pua Okika o Hawaii Nei 2. 1952, 3—7.

Jensen, D. D., Virus diseases of orchids. Calif. Agric., Berkeley, 6. 1952, nr. 1, p. 3, 15, 4 fig; nr. 2, p. 7, 15—16, 10 fig.

Jensen, D. D., and Gold, H., Virus diseases of orchids in California. Phytopathology 42. 1952, 12 (Abstr.).

Klinkowski, M., Viruskrankheiten der Orchideen. Gartenwelt 52. 1952, 177—178, 1 Abb.

Murakishi, H. H., Diamond spot, a new disease of Spathoglottis orchids. [virus] Bull. Pacific Orchid Soc. Hawaii 10. 1052, nr. 1, p. 15—16, 1 tab.

Murakishi, H. H., A mosaic of Vanda orchids. Phytopathology 42. 1952, 178—182, 4 fig.

Murakishi, H. H., A new fungus disease of orchid seedlings in Hawaii. Phytopathology 42. 1952, 517 (Abstr.).

Murakishi, H. H., (Orchid diseases and their control.) Pua Okika o Hawaii Nei 2. 1952, 58.

Murakishi, H. H., Two new virus diseases in Hawaii. Phytopathology 42. 1952, 517 (Abstr.).

Newton, N., and Rosberg, D. W., Electron-microscope studies of a new orchid virus complex. Phytopathology 42. 1952, 79—82, 4 fig.

Northen, R. T., A pseudobulb rot in Cymbidiums. Orchid Digest, Berkeley, 16. 1952, 106—107.

Schenk, P. J., (Orchid diseases.) Cult. en Handel 18. 1952, 707—708.

Slade, G. H., The use of copper naphthenate as a fungicide barrier in seed raising. Austr. Orchid Rev. 17. 1952, 139—140.

Williams, C. G., Diseases and pests of orchids. Austr. Orchid Rev. 17. 1952, 24—25.

Zaitlin, M., Schechtman, A. M., Bald, J. G., and Wildman, S. G., Rapid serological detection of virus in Cattleya orchids. Phytopathology 42. 1952, 478.

Primulaceae

Bodenstein, G., Cyklamen-Schäden durch Cacoecia costana F. Gesunde Pflanzen 4. 1952, 180—181, 1 Abb.

Neergaard, P., Centrospora root rot of Primula malacoides, a serious soil-borne disease in Denmark. Plant and Soil, The Hague, 6. 1952, 128—140.

Tomlinson, J. A., Brown core root rot of Primula caused by Phytophthora primulae n. sp. Trans. brit. mycol. Soc. 35. 1952, 221—235, 6 fig., 2 tab.

Wasscher, J., De betekenis van de N. A. K. S. voor de cyclamen- en anjerteelt. (The value of the N. A. K. S. [General Netherlands Inspections Service for Ornamental Plants] in the cultivation of cyclamen and carnations.) Meded. Dir. Tuinbouw, 's-Gravenhage, 15. 1952, 577—585, fig.

Kann man die Cyclamenwelke bekämpfen? Mitt.bl. Landesverb. Gartenbau, Landw. Berlin 2. 1952, 180—181, 4 Abb.

Pteridophyta

Brewster, M. S., A new species of Physoderma. [Marsilea vestita] Mycologia, Lancaster, 44. 1952, 97—100, 1 fig.

Davis, C. J., Some observations on the fern weevil (Syagrius fulvitarsis Pascoe) in the Kilauea Volcano region of Hawaii National Park with notes on parasitism. Proc. Hawaii. ent. Soc. 14. 1952, 403—405.

Jester, R. A., and **Davidson, O. W.,** Oxalis weed control in Osmunda peat. Bull. amer. Orchid Soc. 21. 1952, 857—859.

Ranunculaceae

Anderson, C. G., and **Jensen, H. J.,** Root-lesion nematodes present in christmas rose imported from Holland. [Pratylenchus sp. on Helleborus niger] Plant Dis. Reptr. 36. 1952, 253.

Beaumont, A., Diseases of paeonies. Gard.' Chron., London, 132. 1952, 24.

Servazzi, O., Botrytis paeoniae Oud., nuova entità della micoflora italiana. (Botrytis paeoniae Oud., a new member of the Italian mycoflora.) [on Paeonia arborea] Nuovo Giorn. bot. ital. 59 (n. ser.). 1952, 573—575, 1 fig.

Rosaceae

Albert jr., A. D., Winter damage in Georgia. Amer. Rose Ann. (amer. Rose Soc.) 37. 1952, 79—81.

Asen, S., and **Davidson, O. W.,** Boron requirement of greenhouse roses. Proc. amer. Soc. hortic. Sci. 60. 1952, 439—448.

Brannon, C. H., Insect problems and other observations from North Carolina. Amer. Rose Mag. (Pennsylv.) 10. 1952, nr. 9, p. 11—13.

Brown, A. M., Cotoneaster as a host of Gymnosporangium clavipes in Manitoba. Mycologia, Lancaster, 44. 1952, 719—720.

Buck, G. J., Easier winter protection. [in Iowa] Amer. Rose Ann. (amer. Rose Soc.) 37. 1952, 71—73.

Çakïllar, M., Önemli bir gül zararlïsï (Platyptilia sp.). (Ein wichtiger Rosenschädling, P. sp.) (Engl. Zusammenfassung.) Tomurcuk, Instanbul, 1952, nr. 2, p. 14—15.

Carrère, L., Les formes L des microorganismes symbiotiques du puceron vert du rosier (Siphonophora rosae L.). Compt. rend. Soc. Biol., Paris, 146. 1952, 522—523.

Fulton, R. W., Mechanical transmission and properties of rose mosaic virus. Phytopathology 42. 1952, 413—416, 1 fig.

Gallucci, M. M., Un'infezione da Monilia fructigena Pers. su drupe di Prunus laurocerasus L. (An attack of Monilia fructigena Pers. on drupes of Prunus laurocerasus L.) Ann. Sperim. agr., Roma, 6 (n. ser.). 1952, 1399—1404, 1 tab.

Garman, P., Experiments with systemic phosphates for control of red spiders (Paratetranychus pilosus) on greenhouse roses. Rose Ann. (nat. Rose Soc.), Croydon, 37. 1952, 139—142.

Geddes, C. H., Resistance of roses to Diplocarpon rosae — the cause of blackspot. Amer. Rose Ann. (amer. Rose Soc.) 1952, 188—197.

Geer, W. C., Preparation of rose dust. Amer. Rose Mag. (Pennsylv.) 10. 1952, nr. 5, p. 18—19.

Hallemans, A., (Some pests injurious to roses.) Cult. en Handel (flem.) 18. 1952, 522—523.

Jenkins, C. F. H., Fuller's rose weevil (Panthomorus godmani Crotch). J. Dept. Agric. West. Austr. 1. 1952, 813—817.

Jorgenson, G. E., Foliage feeding and pest control. Amer. Rose Ann. (amer. Rose Soc.) 37. 1952, 65—68.

Keller, J. R., Botrytis damage to rose flowers. New York State Flower Growers' Bull. nr. 87. 1952, 4, fig.

Kordes, W., Immunzüchtung bei Rosen. Dtsch. Baumsch. 4. 1952, 90, 92—94.

Lampkin, G. F., Some experiences with rose diseases and insects in Florida. Amer. Rose Ann. (amer. Rose Soc.) 37. 1952, 179—182.

Lyle, E. W., Control of moulds on rose bushes in cold storage. [Penicillium, Botrytis, Rhizopus] Down to Earth, Midland (Michigan), 8. 1952, nr. 2, p. 12, 2 fig.

Maroger, M., Étude de dépérissements de rosiers des forceries de la Brie. Ann. agron., Paris, 3. 1952, 548—549.

Marr, R., and **Burgess, W. M.,** Winter damage. [in Ohio] Amer. Rose Ann. (amer. Rose Soc.) 37. 1952, 74—78.

Massey, C. W., The anthracnose disease of roses. [Sphaceloma rosarum] Amer. Rose Ann. (amer. Rose Soc.) 37. 1952, 198—207, 1 fig.

Massey, D. M., and **Owen, O.,** Lime-induced manganese deficiency in glasshouse roses. Cheshunt (Herts.) Exp. Res. Stat. Ann. Rept. 1951. 1952, 81—83.

Massey, L. M., Keeping roses healthy! Amer. Rose Mag. (Pennsylv.) 10. 1952, nr. 10, p. 20—21.

Noack, E., und **Kallauch, W.,** Rosenkultur unter Glas. Anleitung zur Erzeugung von Schnittrosen unter Glas nach den neuesten Erfahrungen. [Krankheiten und Schädlinge] P. Parey, Berlin u. Hamburg 1952. 2., neubearb. Aufl., 82 S., 69 Abb.

Park, B., Some rose diseases and their control. Rose Ann. (nat. Rose Soc.), Croydon, 1952, 57—60.

Petruschowa, N. I., (Measures to control parasitic fungus of roses.) Sad i Ogorod (Orchard and Garden) 9. 1952, 76.

Rath, Die wichtigsten Krankheiten der Rosen. Illustr. Flora, Wien, 75. 1952, 5—6.

Roepke, W., Pterochlorus rosae, an uncommon aphid on roses. Tijdschr. Plantenziekten 58. 1952, 251—252.

Rosen, H. R., Further notes on disease resistant roses and comments on planting dates for Arkansas. Amer. Rose Mag. (Pennsylv.) 10. 1952, nr. 2, p. 4—6.

Shewell-Cooper, W. E., Roses all the way; the way to ward off black spot and the disproval of a modern theory. Field, London, 199. 1952, 953.

Stoutemas, E., (Injuries to roses under glass.) Tuinbouwberichten 16. 1952, 139—140.

Williams, D. H., For dusting enthusiasts — improve your coverage. Amer. Rose Mag. (Pennsylv.) 10. 1952, nr. 4, p. 21—22.

Yurgenson, P. B., (Michurin's remedy for rose rust.) [Phragmidium mucronatum] Priroda, Moskwa, 41. 1952, 108—109.

Saxifragaceae

Allman, S. L., Hydrangea scale prevalent. [Pulvinaria sp.] Agric. Gaz. New South Wales 63. 1952, 84.

Brierley, Ph., and **Smith, F. F.,** A ringspot virus from hydrangea infectious to herbaceous plants. Plant Dis. Reptr. 36. 1952, 382—383.

Kromdijk, G., Het vervroegen van hortensia's. (Forcing hydrangeas.) Cult. en Handel 18. 1952, 644—646.

Scrophulariaceae

Brückbauer, H., Der Löwenmaulrost (Puccinia antirrhini Diet. et Holw.). Gesunde Pflanzen 4. 1952, 297—299, 3 Abb.

Ciferri, R., Microfillia e arricciamento fogliare: una malattia virus-simile dell'antirrino. (Microphylly and leafcurl: a suspected virus disease of Antirrhinum.) Riv. Ortoflorofruttic. ital. 36. 1952, 27—30.

Jeffers, W. F., Downy mildew of snapdragon found in Maryland. [Peronospora on Antirrhinum] Plant Dis. Reptr. 36. 1952, 211, 1 fig.

Moore, W. C., and **Moore, F. J.,** Downy mildew of Antirrhinum in England and Wales. [Peronospora antirrhini] Plant Path., London, 1. 1952, 135—136.

Tarjan, A. C., Comparative studies of some root-knot nematodes infecting the common snapdragon, Antirrhinum majus L. Phytopathology 42. 1952, 641—644, 1 fig.

Tarjan, A. C., Pathogenic behavior of certain root-knot nematodes, Meloidogyne spp., on snapdragon, Antirrhinum majus L. Phytopathology 42. 1952, 637—641, 1 fig.

Theaceae

Gorton, G. R., Viruses in camellias. Camellia Rev. 13. 1952, nr. 6, p. 3—4.

Littlefield, J., Camellias have ailments, too! Golden Gard. 16. 1952, 7—8.

Plakidas, A. G., Control of corky excrescence of camellia. Phytopathology 42. 1952, 16 (Abstr.).

Wolf, F. T., and **Wolf, F. A.,** Pathology of camellia leaves infected by Exobasidium camelliae var. gracilis Shirai. Phytopathology 42. 1952, 147—149, 1 fig.

Verbenaceae

Beaumont, A., Diseases of verbenas. Gard.' Chron., London, 132. 1952, 204.

Patel, M. K., Kulkarni, Y. S., and **Dhande, G. W.,** Two new bacterial diseases of plants. [Xanthomonas clerodendroni on Clerodendron phlomoidis, X. sesbaniae on Sesbania ägyptiaca] Curr. Sci., Bangalore, 21. 1952, 74—75.

Usman, S., and **Raju, R.,** Some new hosts and control of the Lantana bug. [Orthezia insignis] Curr. Sci., Bangalore, 21. 1952, 286—287.

Violaceae

Böhm, O., Die Veilchengallmücke — ein für Österreich neuer Zierpflanzenschädling. [Perrisia affinis] Pflanzenarzt, Wien, 5. 1952, Nr. 10, S. 5—6, 3 Abb.

Bollow, H., Die Gallmücke Dasyneura affinis Kieff. als Schädling der Veilchen. Pflanzenschutz, München, 4. 1952, 32—33, 2 Abb.

Franz, E., Veilchen-Gallmücken in Frankfurt am Main. Natur u. Volk 82. 1952, 314—318, 7 Abb.

Hase, A., Massenauftreten der Veilchenblattrollmücke (Dasyneura affinis) in Berliner Gärten. Nachr.bl. dtsch. Pfl.schutzd., Braunschweig, 4. 1952, 104—106, 5 Abb.

Sennels, (Virus or effects of frost on Viola.) Frø og Gart. (Denmark) 17. 1952, 40—41.

Varia

Beaumont, A., Diseases of phloxes. Gard.' Chron., London, 132. 1952, 44.

Beaumont, A., Petunia diseases. Gard.' Chron., London, 131. 1952, 141.

Blumer, S., Über zwei Schimmelpilze auf den Blütenständen von Poinsettia pulcherrima Willd. [Botrytis cinerea, Penicillium stoloniferum] Phytopath. Ztschr. 19. 1952, 417—422, 4 Abb.

Coutin, R., Trois cecidomyies de végétaux herbacés décoratifs. [Dasyneura, Diarthronomyia spp.] Bull. hortic. (Belgique) 7 (n. ser.). 1952, 177—180.

Da Silva, G. A., and **De Oliveira, S. J.,** (On an »agromyzidae« (Diptera), the larvae of which mine the leaves of the creeping dayflower, Commelina nudiflora.) [Liriomyza commelinae (= Agromyza commelinae Frost)] Rev. bras. Biol., Rio de Janeiro, 12. 1952, 293—299.

Doutt, R. L., Biological control of Planococcus citri on commercial greenhouse Stephanotis. J. econ. Ent. 45. 1952, 343—344.

Fabricatore, J. A., Su due micceti foglicoli di Mahonia aquifolium. Boll. Staz. Pat. veg., Roma, 8 (ser. 3) (1950). 1952, 154—156, 2 fig.

Franklin, M. T., A disease of Scabiosa causacica caused by the nematode Aphelenchoides blastophthorus n. sp. Ann. appl. Biol. 39. 1952, 54—60, 2 fig., 1 tab.

Harrison, I. R., Pediculopsis sp. — a mite found on Acidanthera and Gladiolus corms. Plant Path., London, 1. 1952, 119—120, 1 tab.

Harvey, J. M., Bacterial leaf spot of Umbellularia californica. Madroño, San Francisco, 11. 1952, 195—198, 1 fig.

Hewlett, M. A., Two leaf spots of myrtle new to Great Britain, caused by the fungi Pestalotia decolorata and Cercospora myrti. J. R. hortic. Soc., London, 77. 1952, 413—418, 3 fig.

Matthews, J. W., Daphne can be dangerous. [cucumber mosaic] New Zealand Gard. 9. 1952, 162—163.

Paclt, J., Pests of the genus Catalpa. Biol. Jaarb., Gent, 19. 1952, 60—73.

Patel, M. K., Kamat, M. N., and **Pande, C. B.,** A new leaf blight of Crossandra infundibuliformis Nees. [Colletotrichum crossandrae] Indian Phytopath. 5. 1952, 130—139, 1 fig., 2 tab.

Pritchard, A. E., Brachyrhinus weevils. Spring spray treatment for pest control on nursery grown azaleas, rhododendrons, camellias, heather, other plants. Calif. Agric. 6. 1952, nr. 4, p. 5, 16 (Agric. Bull. (Shell), 2 p.).

Schenk, P. J., Uitwassen aan de wortels van Elaeagnus. (Excrescences on the roots of Elaeagnus.) Cult. en Handel 18. 1952, 650—651, fig.

Srivastava, R. K., Abnormal leaves of Cycas revoluta Thunb. Nature, London, 170. 1952, 253, 5 fig.

Stubbs, L. L., Honeysuckle [Lonicera] variegation caused by a virus. Austr. Plant Dis. Recorder 4. 1952, 37.

Yamane, G., Über die Entfaltungsbewegung und die Entstehung des Blattmosaik von Fatsia japonica. Kagoshima Univ. Sci. Rept. 1. 1952, 59—69, 11 fig.

10. Tropische Nutzpflanzen
Tropical commercial plants — Plantes tropicales du commerce

a. Allgemeiner Teil
General part — Partie générale

Appert, J., Influence des facteurs climatique tropicaux sur la remanence des insecticides organiques. (Essais préliminaire.) Bull. agron. Dir. Agric., Élevage, Forêts, Sect. techn. Agric. trop. (France), 7. 1952, 204—208.

Betrem, J. G., Interrelation and interaction of biotic and abiotic factors in some tropical insects. Trans. IXth int. Congr. Ent., Amsterdam, 1 (1951). 1952, 791—794.

Castellani, E., Problemi fitopatologici degli stati centro-meridionali del Brasile. (Phytopathological problems in the central-southern states of Brazil.) In: »Emigrazione e Colonizzazione agricola in Brasile« 1952, 413—484, 5 tab.

Chevalier, A., Deux composées permettant de lutter contre l'imperata et empêchant la degradation des sols tropicaux qu'il faudrait introduire rapidement en Afrique noire. [Eupatorium odoratum, Tithonia diversofolia] Rev. int. Bot. appl., Agric. trop., Paris, 32. 1952, 494—496.

Chiaromonte, A. (Materials for the revision and completion of the »Introduction to the Agricultural Entomology of Italian Somaliland«.) Riv. Agric. subtrop., trop., Firenze, 46. 1952, 338—341.

De Fluiter, H. J., (Tropical agricultural entomology.) Meded. Dir. Tuinbouw 15. 1952, 33—35.

Deighton, F. C., Plant phatology section. Sierra Leone Dept. Agric. Rept. 1950. 1952, 20—21.

De Wilde de Ligny, H. J., Outbreaks and new records, July-August, 1952. Netherlands New Guinea. FAO Plant Prot. Bull. 1. 1952, nr. 2, p. 29.

Dye, M. H., and **Vernon, T. R.,** Air-borne mould spores, a New Zealand survey. New Zealand J. Sci., Technol. (B) 34. 1952, 118—127, 10 fig.

Geffen, D. H., Disease control in the tropics. [includes insect control] Corona (Engl.) 4. 1952, 309—311.

Globa-Michajlenko, D. A., Osobennosti powreshdenija subtropitscheskich rastenij morosami. (Besonderheiten der Beschädigung subtropischer Pflanzen durch Fröste.) Lesnoe Khoz. (USSR) 5. 1952, 72—75.

Hurwitz, S., Lachover, D., and **Huber, A.,** Farm manures, soils, and seeds of cultivated crops as sources of weed seed infestation of fields under subtropical conditions. Proc. int. Seed Testing Assoc. 17. 1951/1952, 39—43.

Marais, J. S., Farming problems in the winter-rainfall area. Farming South Afr. 27. 1952, 625—629, 635.

Martin, F., Lutte contre les ennemis des plantes et de l'homme en agriculture tropicale. Rev. int. Prod. colon., Paris, 27. 1952, 207, 209.

Martyn, E. B., Diseases of economic plants in Trinidad and Tobago. Trinidad-Tobago Dept. Agric. Bull. 2 (n. ser.). 1952, 30 p., 6 tab.

Moreau, C., Les maladies parasitaires des principales cultures coloniales. Revue bibliographique. IX, X. Rev. Mycol. 17. 1952, Suppl. colon. 1, p. 30—47, 84—96.

Naude, T. J., Entomological services and research. Farming South Afr. 27. 1952, 616—621.

Roonwal, M. L., The natural establishment and dispersal of an imported insect in India. — The Lantana lug, Teleonemia scrupulosa Stål (= lantanae Distant; Hemiptera, Tingidae), with a description of its egg, nymphes and adult. J. zool. Soc. India 4. 1952, 1—16.

Sattar, A., and **Hafiz, A.,** Researches on plant diseases of the Punjab. Pakistan Assoc. Advanc. Sci. sci. Monogr. 1. 1952, III+158 p., 72 fig., 10 tab. col., 2 tab. geogr.

Sempio, C., La patologia vegetale negli Stati Uniti d'America. Ricerca sci., Roma, 22. 1952, 615—636.

Dominica: Annual report of the Department of Agriculture, Dominica, 1949. 1952, 33 p.

Malaya: Notes on current investigations, July to September, 1952. Malayan agric. J. 35. 1952, 218—227.

New South Wales: Plant disease survey for the twelve months ending 30th June, 1951. Biological Branch — Division of Science Services. New South Wales Dept. Agric. Ann. Rept. 1951. 1952, 54 p., 1 tab. geogr.

South Pacific: Current research in the South Pacific in the field of economic development. South Pacific Comm. Techn. Pap. 29. 1952, 82 p.

b. Baumwolle
Cotton — Coton

Allgemeiner Teil
General part — Partie générale

Berry, P. A., and **Kreysa, J.,** Controle de plages del algodón. Cent. Nac. Agron. Circ. Agric. 55. 1952, 8 p.

Butler, E., Are you buying a cotton sprayer? Progr. Farmer (Texas Ed.) 67. 1952, nr. 2, p. 82 B.

Ceruso, H. E., Algunos procedimientos de lucha contra plagas del algodonero. Almanaque Minist. Agric., Ganad., Buenos Aires, 26/27. 1951/1952, 119—121.

Elliot, F. C., Cotton defoliation guide in Texas. Texas agric. Coll. Ext. Leafl. nr. 145. 1952, 3 p.

Franssen, C. J. H., Voorzorgsmaatregelen tegen ziekten en plagen bij de katoencultur in Indonesië. (Precautionary measures against pests and diseases in cotton cultivation in Indonesia.) Pemb. Balai Besar Penj. Pert. (Contrib. gen. agric. Res. Stat.), Bogor, nr. 133. 1952, 18 p.

Istŭranca, R., Pamuklarda topallĭk hastalĭgĭ. (Wurzel-Lahmheit bei Baumwolle.) Tomurcuk, Istanbul, 1952, nr. 1, p. 4.

Kišpatić, J., Lušin, V., und **Klindić, O.,** (Die Behandlung der Baumwollsamen mit Formalin und Schwefelsäure.) Saschtita Bilja (Plant Prot.), Beograd, 1952, nr. 10, p. 3—8.

Leiby, R. W., Now the plants bite back. [systematic poisons for use on cotton and nonedible ornamental plants] Country Gentleman, Philadelphia, 122. 1952, nr. 6, p. 20.

Lowry, W. L., and **Calhoun, S. L.,** (Bekämpfung von Baumwollschädlingen.) Agric. Chem., Baltimore, 7. 1952, nr. 3, p. 39—40, 79.

Menzel, M. Y., and **Brown, M. S.,** Polygenomic hybrids in Gossypium. II. Mosaic formation and somatic reduction. Amer. J. Bot. 39. 1952, 59—69, 20 fig.

Peltier, M., et **Cours, G.,** Le cotonnier. [ennemis] Compt. rend. Rech. agron. Madagascar 1952, nr. 1, p. 60—67, 3 fig.

Sulochana, C. B., Soil conditions and root diseases. VII. Response of cotton plants to micro-element amendments and its relation to disease development. Proc. indian Aced. Sci. (Sect. B) 36. 1952, 234—242.

Activité de l'I.R.C.T. Année 1951. [maladies] Coton, Fibres trop., Paris, 7. 1952, nr. 1, p. 5—126, 50 fig.

Cotton's beneficial insects. Cotton Gin, Oil Mill Press, Dallas (Texas), 53. 1952, 72—74. — Acco Press 30. 1952, nr. 3, p. 4, 14.

Progress reports from Experiment Stations, season 1950—51. Empire Cotton Growing Corp., London 1952. 159 + VI p., 10 fig.

Nichtparasitäre Krankheiten
Diseases not caused by parasites
Maladies non parasitaires

Abrahão, J., y **de Andrade, A. C.,** A »fome de potássia« ou »vermelhão« nos algodoais do Estado de São Paulo. Biológico, São Paulo, 18. 1952, 91—102, 6 fig.

Both, D., Cotton and insecticides. South afr. ind. Chem., Johannesburg, 6. 1952, 285—286.

Brown, L. C., and **Ellwood, C. C.,** Defoliating cotton in Arizona. Arizona agric. Coll. Ext. Circ. 203. 1952, 7 p.

Dantas, J. G., (Observations on a disease of cotton plantations, little studied in the State of São Paulo. [potassium deficiency] Rev. Mercados (Brasil) 3. 1952, nr. 18, p. 21—23.

Dastur, R. H., Singh, K., and **Kaiwar, S. R.,** Investigations on the red leaf disease in American cottons. II. Indian Cotton Growing Rev. 6. 1952, 193—204.

Garrard, W. M., Pre-emergence chemical application is said to cause damage to many cotton fields. Cotton Digest 24. 1952, nr. 36, p. 9, 20.

Hall, W. C., and **Lane, H. C.,** Compositional and physiological changes associated with the chemical defoliation of cotton. Proc. Assoc. south. agric. Workers 49. 1952, 146—147 (Abstr.). — Plant Physiol., Lancaster, 27. 1952, 754—768.

Lambou, M. G., Mayne, R. Y., Proctor, B. E., and **Goldblith, S. A.,** Effects of high-voltage cathode-ray irradiation on cottonseed. Science, Lancaster, 115. 1952, 269—271, 1 fig.

Lane, H. C., and **Hall, W. C.,** The effect of applied sugars, light intensity, and temperature upon the chemical defoliation of cotton. Science, Lancaster, 116. 1952, 427—428.

McIlrath, W. J., and **Ergle, D. R.,** Effect of 2, 4, 5-T on young cotton plants. [weed control] Texas agric. Exp. Stat. Progr. Rept. 1464. 1952, 4 p.

McKinlay, K. S., Phytotoxicity of BHC to cotton. Empire Cotton Growing Rev., London, 29. 1952, 269—272.

Menzel, M. Y., and **Brown, M. S.,** Viable deficiency-duplications from a translocation in Gossypium hirsutum. Genetics 37. 1952, 678—692.

Ratcliff, R. Y., Norman, W. C., and **Smilie, J. L.,** Cotton reactions to the application of certain aromatic oils as post-emergence sprays. Proc. south. Weed Conf. 5. 1952, 88—90.

Thomas, R. O., Cotton seedling cotyledons as test material for chemical defoliants. Proc. Assoc. south. agric. Workers 49. 1952, 147 (Abstr.).

Young, V. H., and **Beacher, R. L.,** Crinkle leaf of cotton, a result of manganese toxicity. Arkansas Farm Res. 1. 1952, nr. 2, p. 7, 2 fig.

Pflanzliche Feinde
Vegetal parasites — Parasites végétaux

Abrahão, J., A manifestação tardia da »ramulose« ou »superbrotamento« do algodoeiro. (The belated appearence of »ramulosis« or »superbudding« of cotton.) [Colletotrichum gossypii var. cephalosporioides] Biológico, São Paulo, 18. 1952, 135—138, 2 fig.

Balasubrahmanyan, R., and **Iyengar, N. K.,** Breeding for blackarm resistance in Madras. Indian Cotton Growing Rev. 6. 1952, 9—15.

Bazán de Segura, C., Experiencias sobre el hongo Tielaviopsis basicola que ataca al algodonera. Mensajero agríc. (Perú) 70. 1952, 24.

Bird, L. S., The importance of resistance to the bacterial blight (angular leaf spot) disease of cotton. [Xanthomonas malvacearum] Plant Dis. Reptr. 36. 1952, 3—4.

Bird, L. S., Station reports on bacterial blight damage to cotton. Cotton Gin, Oil Mill Press, Dallas (Texas), 53. 1952, nr. 5, p. 86.

Boza Barducci, T., El oidium o manta blanca del algodonero. Cañete Estac. Exp. Circ. 10-D. 1952, 7 p.

Brinkerhoff, L. A., Green, J. M., Hunter, R., and **Fink G.,** Frequency of bacterial blight-resistant plants in twenty cotton varieties. Phytopathology 42. 1952, 98—100, 1 fig.

Brown, J. G., and **Allen, R. M.,** Cotton seeds can carry Verticillium-wilt fungus. Arizona agric. Coll. Ext. Circ. 182. 1951, 4 p.

De Coene, R., Les méthodes et les progrès de la sélection du cotonnier à Bambesa. [Fusarium vasinfectum] Bull. Inform. Inst. Études agron. Congo Belge 1. 1952, 289—304.

Gubanow, G., (Die Bestimmung der Widerstandsfähigkeit der Baumwollpflanze gegenüber der Gommose.) [Xanthomonas malvacearum] (Cotton Ind.) (USSR) nr. 8. 1952, 41—45.

Guillemat, M. J., Observation du »wilt« sur les cotonniers cultivés dans la région méditerranéenne. [Fusarium vasinfectum, Verticillium albo-atrum] Phytoma, Paris, 5. 1952, nr. 36, p. 8—11, 8 fig.

Istïranca, R., Pamuk solgunluk hastalïğï. (Welkekrankheit der Baumwolle.) Tomurcuk, Istanbul, 1952, nr. 3, p. 4; nr. 4, p. 6—7.

Jameson, J. D., Report on blackarm disease of cotton. [Xanthomonas malvacearum] Uganda Dept. Agric. Rec. 2 (1949—50). 1952, 1—3.

Kišpatić, J., et al., (The treatment of cotton-seeds with formaline and sulphuric-acid.) [Xanthomonas malvacearum] Saschtita Bilja (Plant Prot.), Beograd, nr. 10. 1952, p. 3—8.

Lagière, R., Possibilités de transmission de la fusariose du cotonnier (F. vasinfectum Atk.) par les graines. Coton, Fibres trop., Paris, 7. 1952, nr. 1, p. 146—148.

Lavallard, M. L., Arkansas attacks Verticillium wilt disease of cotton. Cotton Gin, Oil Mill Press, Dallas (Texas), 53. 1952, nr. 9, p. 39.

Lehman, S. G., Dusting tests for control of fungus damage to seed cotton in North Carolina in 1951. Plant Dis. Reptr. 36. 1952, 414—415.

Lehman, S. G., Results of dusting tests for reduction of fungus damage to seed cotton. Phytopathology 42. 1952, 285 (Abstr.).

Leyendecker jr., Ph. J., Root rot of cotton caused by Thielaviopsis basicola discovered in the upper Rio Grande Valley of Texas. Plant Dis. Reptr. 36. 1952, 53.

Leyendecker jr., Ph. J., Blank, L. M., and **Nakayama, R. M.,** Tests with cultural practices for control of Verticillium wilt on cotton. New Mexico agric. Exp. Stat. Press Bull. 1062. 1952, 5 p.

Mirpulatowa, N., (Centralized treatment of cotton seeds.) [Xanthomonas malvacearum] Khlopkovodstvo (USSR) 2. 1952, 25—28.

Moore, M. D., Treating seed to control cotton diseases. Cotton Gin, Oil Mill Press, Dallas (Texas), 53. 1952, nr. 2, p. 9—10, 30—31.

Mostafa, M. A., and **Gayed, S. K.,** Effect of Trichoderma metabolites on growth of cotton plants. Nature, London, 169. 1952, 359—360.

Pridham, T. G., and **Raper, K. B.,** Studies on variation and mutation in Ashbya gossypii. Mycologia, Lancaster, 44. 1952, 452—469, 2 fig.

Revilla M., V. A., Control de la chupadera mediante fungicidas. [Rhizoctonia solani] Agronomia, Lima (Perú), 17. 1952. nr. 70, p. 54—56.

Revilla M., V. A., El »oidium del algodonero« en el Valle de Carabayllo. [Erysiphe malachrae] Vida agríc., Lima (Perú), 29. 1952, nr. 338, p. 19, 21, 23—24

Satyanarayana, G., and **Kalyanasundaram, R.,** Soil conditions and root diseases. V. Symptomatology of wilted cotton and red gram. [Fusarium vasinfectum] Proc. indian Acad. Sci. (Sect. B) 36. 1952, nr. 2, p. 54—58, 1 tab.

Schaschin, A., (Effect of close planting upon the degree to which cotton becomes affected by wilt.) Khlopkovodstvo (USSR) 6. 1952, 41.

Selonke, P., Gila Valley faces dilemma; Graham County farmers plant seven varieties in search for wilt resistant strain. Arizona Farmer 31. 1952, nr. 18, p. 1, 10—11.

Smith, A. L., and **Dick, J. B.,** The inheritance of resistance to Fusarium wilt in upland and Sea Island cotton. Phytopathology 42. 1952, 287—288 (Abstr.).

Subramanian, C. V., Studies on south Indian Fusaria. I. Fusarium vasinfectum Atk., with a note on its varieties and forms. II. Fusaria isolated from black cotton soils. Proc. nat. Inst. Sci. India, Calcutta, 18. 1952, 273—285, 1 fig; 557—584, 14 fig.

Sulochana, C. B., Soil conditions and root diseases. VI. Germination of conidia of Fusarium vasinfectum in micro-element amended soils. VII. Response of cotton plants to micro-element amendments and its relation to disease development. Proc. indian Acad. Sci. (Sect. B) 36. 1952, 229—233, 234—242.

Sundaram, N. V., New host for Xanthomonas malvacearum (Smith) Dowson. Curr. Sci., Bangalore, 21. 1952, 320.

Wiles, A. B., A seedling inoculation technique for testing cotton varieties for resistance to Verticillium wilt. Proc. Assoc. south. agric. Workers 49. 1952, 139 (Abstr.) — Phytopathology 42. 1952, 288 (Abstr.).

Unkräuter
Weeds — Mauvaises herbes

Albert, W. B., Powers, M. R., and **Bland, H. E.,** Suggested procedures for chemical weed control in cotton for 1952. South Carolina agric. Exp. Stat. Circ. 84. 1952, 16 p.

Bilbrey, K., and **Carter, H. H.,** The goose in the cotton patch. [grass control] Progr. Farmer (Mississippi-Arkansas-Louisiana Ed.) 67. 1952, nr. 5, p. 15, 147.

Elliott, F. C., You can cut cotton's hoe bill. [mechanical and chemical weed control] Progr. Farmer (Texas Ed.) 67. 1952, nr. 3, p. 22, 172.

Harris, V. C., Cotton produced without cultivation as chemicals provide control of weeds. Mississippi Farm Res. (Mississippi Stat.) 15. 1952, nr. 2, p. 1, 3.

Heinen, R., »Hang up de shubble and de hoe?« Four new weed killers for cotton may make it possible. Farm J., Philadelphia, 76. 1952, 37.

Howell, R. E., and **Sloan, R. H.,** Chemical weed control in cotton production. Arkansas agric. Coll. Ext. Leafl. nr. 166. 1952, 6 p.

Keilholz, F. J., Chemicals take over cotton weeding. Country Gentleman, Philadelphia, 122. 1952, nr. 4, p. 23, 85—86.

Leasure, J. K., Chemical weed control methods for cotton. Tennessee agric. Exp. Stat. Circ. 109. 1952, 6 p.

McDuff, I. H., Herbicides blamed in Arkansas cotton loss. Agric. Chem., Baltimore, 7. 1952, nr. 6, p. 75, 123.

Rea, H. E., Control of weed and grass seedlings in old cotton. Texas agric. Exp. Stat. Progr. Rept. 1511. 1952, 2 p.

Rea, H. E., Post-emergence effects of N-1-naphthyl phthalamic acid and its derivatives on cotton and certain weeds. Texas agric. Exp. Stat. Progr. Rept. 1517. 1952, 2 p.

Tindall, C., Chemicals get weeds, help cotton growers. Missouri Ruralist, St. Louis, 93. 1952, nr. 4, p. 12, 26.

Wilson, J. P., and **Talley, P. J.,** The chemicals are coming! [non-fortified herbicidal oil in weed control in cotton] Arkansas Farmer 54. 1952, nr. 3, p. 8, 17.

Wooten, R. H., Weed killer aids cotton cultivation. Chemurgic Digest, Columbus (Ohio), 11. 1952, 12—14.

Chemical weed control; recommendations for cotton in 1952. Mississippi agric. Exp. Stat. Circ. 171. 1952, 13 p.

Tierische Feinde
Animal parasites — Parasites animaux

Anhoury, J., Deuxième mise au point sur la destruction des pointes et des vers de la feuille du cotonnier. [Prodenia litura] Feuilles agric. (Égypte) 10. 1952, 33—45.

Anthony, K. R. M., and Tarr, S. A. J., The causes of deterioration of cotton seed in the Equatoria Province of the Anglo-Egyptian Sudan. [Dysdercus spp. and humidity during storage] Empire J. exp. Agric. 20. 1952, nr. 77, p. 56—65.

Barnes, G., and Lincoln, C., 1952 cotton insect control. Arkansas agric. Coll. Ext. Leafl. nr. 52. 1952, 12 p.

Bassols, I., y Barrera, A., Antiguos y nuevos insecticidas en el combate del picudo del algondonero (Anthonomus grandis) Boh. Fitófilo, San Jacinto (México), 6. 1952, nr. 4, p. 35—42.

Beckham, C. M., and Dupree, M., Boll weevil (Anthonomus grandis) hibernation in Georgia in 1951—52. Cotton Gin, Oil Mill Press, Dallas (Texas), 53. 1952, nr. 9, p. 43—44.

Benford, H., It's time to get ready to battle cotton bugs. Progr. Farmer (Georgia—Alabama—Florida Ed.) 67. 1952, nr. 4, p. 28—29.

Bennett, A. G., Johnston, T., and Murphree, L. C., Three gallon sprayer for cotton insect control. Mississippi State Coll. Ext. Publ. 240. 1952, 2 p.

Bishara, I., The Egyptian cotton crop of 1952 with special reference to insect attacks. Egypt. Cotton Gaz. 17. 1952, 45—51.

Bishopp, F. C., Fighting cotton insects. Cotton Gin, Oil Mill Press, Dallas (Texas), 53. 1952, nr. 5, p. 99—100.

Blackaller V., A., Peligros de envenenamiento con los insecticidas aplicados al algodonero y precauciones para su manejo. Fitófilo, San Jacinto (México), 6. 1952, nr. 4, p. 11—16.

Butler, E., Spray cotton — and spray it right. [mixing and application of spray in insect control] Progr. Farmer (Texas Ed.) 67. 1952, nr. 4, p. 17, 196.

Butler, E., What we know about the pink bollworm (Pectinophora gossypiella). Progr. Farmer (Texas Ed.) 67. 1952, nr. 8, p. 17, 96; nr. 9, p. 18.

Çakïllar, M., Ege'de pembe kurt (Pectinophora gossypiella). (Der rosafarbene Wurm im ägäischen Gebiet, P. g.) Tomurcuk, Istanbul, 1952, nr. 3, p. 5.

Çakïllar, M., Pembekurt mücadelesinde biyolojik esaslarïn rölü. (Die Rolle der biologischen Grundlagen bei der Bekämpfung des rosafarbenen Wurms.) Tomurcuk, Istanbul, 1952, nr. 4, p. 9.

Calhoun, S. L., and Dunnam, E. W., Field tests to determine the dosage level of heptachlor required for boll weevil (Anthonomus grandis) control. Proc. Assoc. south. agric. Workers 49. 1952, 80—81 (Abstr.).

Campbell, I. J., Pink bollworm (Pectinophora gossypiella) major loss factor. Cotton Gin, Oil Mill Press, Dallas (Texas), 53. 1952, nr. 18, p. 9—10.

Campbell, I. J., The pink menace (Pectinophora gossypiella). Cotton Gin, Oil Mill Press, Dallas (Texas), 53. 1952, nr. 7, p. 9—10, 29—32.

Campbell, W. V., Toxicity of insecticides to some predaceous insects on cotton. J. econ. Ent. 45. 1952, 828—833.

Campbell, W. V., and Hutchins, R. E., Toxicity of insecticides to some predaceous insects on cotton. J. econ. Ent. 45. 1952, 786—789.

Castro, J., Informe sobre la situación de las plantaciones de algodón en Guatemala con referencia a las plagas de dicho cultivo en año de 1951. [insect pest situation] Monît. INFOP Inst. Fomento Prod., Guatemala, 3. 1952, nr. 9, p. 34—37.

Ceruso, H. E., Algunos procedimientos de lucha contra plagas del algodonero. [insect pests] Almanaque Minist. Agric., Buenos Aires, 26/27. 1951/1952, 119—121.

Chiaromonte, A., (À propos of Empoasca facialis Jac. and of Anagrus scassellatii Paoli.) [the latter a parasite of the ova of the former. Reference is made to effects on the cotton plant] Riv. Agric. subtrop., trop., Firenze, 46. 1952, 341—343.

Curl, L. F., Control of the pink bollworm (Pectinophora gossypiella). Cotton Gin, Oil Mill Press, Dallas (Texas), 53. 1952, nr. 17, p. 11—12, 31—32.

Curl, L. F., and White, R. W., The pink bollworm. US Dept. Agric. Yearb. Agric. 1952, 505—511, 1 fig.

Da Fonseca, J. P., (Control of pink bollworm.) [Pectinophora gossypiella] Rev. Soc. rural bras., São Paulo, 32. 1952, nr. 380, p. 44.

Da Fonseca, J. P., (The pink cotton bollworm.) [Pectinophora gossypiella] Bol. Agric., São Paulo, 51. 1952, 241—346.

Da S. Barbosa, A. J., (Brief notes on the entomological panorama of the 1951—52 cotton season.) Gaz. Agric., Moçambique (Brasil), 4. 1952, 283—289.

Dean, H. A., Lady beetle kills cottony cushion scale. [Icerya purchasi controlled by Rodolia cardenalis] Texas Farming, Citric. 29. 1952, nr. 5, p. 12—13.

De Camargo, G. E., (Control the plague of the pink bollworm.) [Pectinophora gossypiella] Rev. Mercados (Brasil) 3. 1952, nr. 19, p. 62—64.

De la Rosa, J. G., Control de las plagas del algodonero. [a discussion of various insecticides] Tierra, México, 7. 1952, 122—126, 174—175, 201—205, 250—253. — Bol. Asoc. Gen. Agric. Guatemala 322. 1952, 2, 7.

Dogger, J. R., Cotton insect control tests, 1951. Oklahoma agric. Exp. Stat. Mimeogr. Circ. M-233. 1952, 3 p.

Douglas, E., Nematode nuisance becomes a menace; harder and harder to get good cotton stands and yields as eelworm infestations spread. Arizona Farmer 31. 1952, nr. 15, p. 1, 14—15.

Elliott, F. C., and **Gunter, A. C.,** Early cotton stalk destruction will pay. [Pectinophora gossypiella] Texas agric. Coll. Ext. Leafl. 173. 1952, 2 p.

El-Zoheiry Bey, H. E. M. S., and **Asem, M. A.,** The chinese jute- or Hollyhock moth Crocidosema plebeiana, Zell. as an anticipated cotton pest. Trans. IXth int. Congr. Ent., Amsterdam, 1 (1951). 1952, 472—477, 3 fig.

Erkul, E. Pamuklara musallat olan pembekurtlar ve diğer haşereler ile tabii ve kolay yeni bir mücadele usulü. (Eine natürliche und einfache Methode zur Bekämpfung der die Baumwolle befallenden rosafarbenen Würmer und anderer tierischer Schädlinge.) Tomurcuk, Istanbul, 1952, nr. 4, p. 18—19.

Ewing, K. P., The bollworm. US Dept. Agric. Yearb. Agric. 1952, 511—514, 3 fig.

Ewing, K. P., Progress of cotton insect control in the Southwest. Cotton Gin, Oil Mill Press, Dallas (Texas), 53. 1952, nr. 5, p. 114, 116—117.

Farrar, M. D., Cotton research highlights — 1952. [insects] Agric. Bull. (Shell) ADB 124. 1952, 4 p.

Faulkner, L. R., Hemipterous insect pests; their occurrence and distribution in principal cotton producing areas of New Mexico. New Mexico agric. Exp. Stat. Bull. 372. 1952, 25 p.

Fenton, F. A., and **Dogger, J. R.,** Cotton blooming as an index of the effect of timing insecticide applications for boll weevil control. Proc. Oklahoma Acad. Sci. 32. 1952, 53—55.

Fife, L. C., Progress of cotton insect control in the Southeast. Cotton Gin, Oil Mill Press, Dallas (Texas), 53. 1952, nr. 5, p. 34, 38, 40.

Fife, L. C., Bondy, F. F., and **Walker, R. L.,** Spray versus dust for boll weevil control with ground equipment. J. econ. Ent. 45. 1952, 16—19.

Fife, L. C., and **Walker, R. L.,** Volume of spray and nozzles per row in relation to boll weevil [Anthonomus grandis] control. Proc. Assoc. south. agric. Workers 49. 1952, 82 (Abstr.).

Foreman, B., Anthonomus grandis. Cotton Gin, Oil Mill Press, Dallas (Texas), 53. 1952, nr. 5, p. 58—60.

Gaines, J. C., Control of spider mites (Septanychus texazona) on cotton. Texas agric. Exp. Stat. Progr. Rept. nr. 1431. 1952, 3 p.

Gaines, J. C., King, C. E., and **Fuller, F. M.,** Spider mite control on cotton. J. econ. Ent. 45. 1952, 523—526.

Gaines, J. C., Pfrimmer, T. R., Merkl, M. E., and **Fuller, F. M.,** Insecticidal control of thrips on cotton. (Frankliniella tritici, F. fusca, F. exigua] J. econ. Ent. 45. 1952, 790—794.

Gaines, R. C., The boll weevil. US Dept. Agric. Yearb. Agric. 1952, 501—504, 1 fig.

Giannotti, O., (The application of concentrated spray insecticides.) [cotton pest control] Biológico, São Paulo, 18. 1952, 49—50.

Giannotti, O., and **Lepage, H. S.,** (Concentrated dusts of various insecticides for the control of some cotton pests.) Biológico, São Paulo, 18. 1952, 73—82.

Gómez Clemente, F., Planes García, S., y **Del Rivero, J. M.,** Lucha química contra la oruga de las cápsulas del algodonero (Earias insulana). (Cuatro años de experiencias.) Bol. Pat. veg., Ent. agríc., Madrid, 19. 1951—52, 59—85, 4 fig.

Gunter, A. C., Cotton insect control today. Proc. amer. Cotton Congr. 13. 1952, 90—91.

Hamner, A. L., Progress of cotton insect control in the Midsouth. Cotton Gin, Oil Mill Press, Dallas (Texas), 53. 1952, nr. 5, p. 102, 104.

Hamner, A. L., Hutchins, R. E., and **Murphree, L. C.,** Cotton insect controls. Mississippi State Coll. Ext. Publ. nr. 207. 1952, 12 p.

Hanna, R. L., and **Gaines, J. C.,** Evaluation of dusting schedules for control of cotton insects. J. econ. Ent. 45. 1952, 549—550.

Holdeman, Q. L., and **Graham, T. W.,** The association of the sting nematode (Belonoliamus gracilis) with some persistent cotton wilt spots in northeastern South Carolina. Proc. Assoc. south. agric. Workers 49. 1952, 140.

Hoyt, A. S., Some cotton insect problems we face. Cotton Gin, Oil Mill Press (Texas) 53. 1952, nr. 5, p. 26, 28.

Hutchins, R. E., Hamner, A. L., and **Murphree, L. C.,** Cotton insect control; recommendations for 1952. Mississippi agric. Exp. Stat. Circ. 170. 1952, 8 p.

Hutchins, R. E., Hamner, A. L., and **Murphree, L. C.,** Dusts and sprays for cotton insect control in 1952. Mississippi Farm Res. (Mississippi Stat.) 15. 1952, 1, 8.

Iwanow, E., (Chemical means of protecting young cotton growth from gnawing pests. [caterpillars and stem borers] Khlopkovodstvo (USSR) 4. 1952, 44—47.

Jenkins, M. T., This insect checking program pays off for the cotton farmer. Acco Press 30. 1952, nr. 7, p. 11—12.

Johnston, H. G., The need for basic research in cotton insect control. Acco Press 30. 1952, nr. 3, p. 5—7.

Jones, G. D., Get ready for the boll weevil. Carolina Co-operator 30. 1952, nr. 5, p. 10—11.

Jones, M. P., Looking back on cotton insect conditions and programs in 1951. Acco Press 30. 1952, nr. 2, p. 9—12.

Jones, M. P., Progress of educational work in insect control. Cotton Gin, Oil Mill Press, Dallas (Texas), 53. 1952, nr. 5, p. 106, 108—109.

Kamal, M., The biological control of the cotton leaf-worm (Prodenia litura F.) in Egypt. Bull. Soc. Fouad Ier Ent., Le Caire, 35 (44). 1950—51, 221—270, 1 fig., 1 tab. col.

Kamal, M., Investigations on the biological control of the cotton leaf-worm, Prodenia litura, in Egypt. I. Importance of local and foreign parasites. II. Techniques used in the introduction of Microplitis demolitor Wilk., a braconid endoparasite of Prodenia. Trans. IXth int. Congr. Ent., Amsterdam, 1 (1951). 1952, 757—760, 760—765.

Keyder, S., Öğmen, S., ve **Çakïllar, M.,** Pembe kurda karşï yapïlan Chlorasol denemeleri. (Versuche mit Chlorasol gegen den rosa Wurm (Pectinophora gossypiella).) Tomurcuk, Istanbul, 1952, nr. 5, p. 7.

Knight, R. L., The genetics of jassid [Empoasca libyca] resistance in cotton. I. The genes H1 and H2. J. Genet., Cambridge, 51. 1952, 47—66.

Leiderman, L., (Modern efficient methods of controlling cotton pests.) Rev. Soc. rur. brasil., São Paulo, 32. 1952, nr. 373, p. 64—67.

Lincoln, C., and **Williams, F.,** Control of cotton bollworm [Heliothis armigera] and boll weevil [Anthonomus grandis] in 1951. Arkansas agric. Exp. Stat. Rept. ser. 33. 1952, 25 p.

Lowry, W. L., and **Calhoun, S. L.,** Control of the yellow-striped armyworm (Prodenia ornithogalli) on cotton with organic insecticides. Proc. Assoc. south. agric. Workers 49. 1952, 82. — J. econ. Ent. 45. 1952, 741.

Marin H., C., Origen de las tres principales plagas del algodón en Colombia. [Sacadodes pyralis, Pectinophora gossypiella, Anthonomus grandis] Agric. trop. (Colombia) 8. 1952, nr. 8, p. 27—29.

Mistikawi, Abd el Megid el, Chemical control of the cotton leaf-worm, Prodenia litura L., in Egypt. Trans. IXth int. Congr. Ent., Amsterdam, 1 (1951). 1952, 766—770, 1 fig.

Murillo, L. M., Algunos aspectos de la sanidad de los cultivos de algodón en Colombia. [insect pests] Agric. trop. (Colombia) 8. 1952, nr. 7, p. 23—34.

Newsom, L. D., Roussel, J. S., and **Smith, C. E.,** The effect of infestation by the tobacco thrips, Frankliniella fusca (Hinds) on growth and yield of cotton. Proc. Assoc. south. agric. Workers 49. 1952, 82 (Abstr.).

Nonveiller, G., (Pectinophora gossypiella Saund. en Yougoslavie.) Saschtita Bilja (Plant Prot.), Beograd, nr. 10. 1952, 73—82, 3 fig.

Öğmen, S., Pembekurt (Pectinophora gossypiella) mücadelesinde kullanïlan fümigantlar. (Zur Bekämpfung des rosafarbenen Wurms (P. g.) verwendete Begasungsmittel.) Tomurcuk, Istanbul, 1952, nr. 4, p. 8.

Owen jr., W. L., and **Gaines, J. C.,** Bollworm (Heliothis armigera) control in irrigated cotton. Texas agric. Exp. Stat. Progr. Rept. 1445. 1952, 3 p.

Owen jr., W. L., and **Gaines, J. C.,** Progress report on bollworm [Heliothis armigera] control on irrigated cotton. Cotton Gin, Oil Mill Press, Dallas (Texas), 53. 1952, 50, 52.

Perez Reyes, G., La campaña entomologica 1951—1952, en algodonero, en la hacienda »El Ingenio«, Valle de Huaura. Agronomía, Lima (Perú), 17. 1952, nr. 72, p. 115—120.

Phillips, G. L., Methyl bromide fumigation of cottonseed in freight cars for the destruction of pink bollworms. [Pectinophora gossypiella] US Bur. Ent., Plant Quar. E-838. 1952, 16 p.

Pustovoit, G., (New means to combat the cobweb mite [Tetranychus urticae] on cotton plants.) Khlopkovodstvo (USSR) 5. 1952, 41—42.

Rainwater, C. F., Progress in research on cotton insects. US Dept. Agric. Yearb. Agric. 1952, 497—500.

Rao, C. J., Raghavan, A., and **Rao, P. A.,** A review of recent progress in the work for the evolution of jassid (Empoasca devastans) and blackarm (Xanthomonas malvacearum) resistant strains of Cambodia for the Tungabhadra project area. Indian Cotton Growing Rev. 6. 1952, 147—155.

Raychaudhuri, S. P., and **Manna, G. K.,** A new type of segregation of the sex chromosomes in the meiotic divisions of the cotton stainer Dysdercus koeniglii (Fabr.). J. Genet., Cambridge, 51. 1952, 191—197.

Roney, J. N., Cotton insect control in Arizona, 1952. Arizona agric. Coll. Ext. Circ. 179. 1952, 8 p.

Roussel, J. S., Newsom, L. D., and **Smith, C. E.,** Insecticide tests for the control of cotton pests in Louisiana during the period 1948—1951. Proc. Assoc. south. agric. Workers 49. 1952, 81.

Sayre, C. R., Pink bollworm (Pectinophora gossypiella) research and control. Acco Press 30. 1952, nr. 3, p. 21—23, 28.

Stanley, W. W., Tests with systox on cotton and snap beans. [for control of thrips] Proc. Assoc. south. agric. Workers 49. 1952, 82—83.

Stevenson, W. A., Progress of cotton insect control in the Far West. Cotton Gin, Oil Mill Press, Dallas (Texas), 53. 1952, nr. 5, p. 118—119.

Stiles, C. F., Cotton insect control. Oklahoma agric. Coll. Ext. Circ. 499. 1952, 8 p.

Tipton, B., Is the answer to the pink bollworm (Pectinophora gossypiella) delayed planting? Acco Press 20. 1952, nr. 3, p. 13—20.

Tsujita, M., (External structure on the larva and pupa of the cotton pest; Earias cupreoviridis Walker (Noctuidae, Lepidoptera).) Salkyo Univ. Fac. Agric. Sci. Rept. 2. 1952, 111—115.

Van Tiel, N., Experiments with various insecticides on cotton jassid in the Sudan and on cotton leafworm in Egypt. III. Congr. int. Phytopharm., Paris, vol. 2. 1952, 522—526.

Vrydagh, J. M., Les principaux ravageurs des cotonniers dans le nord du Congo Belge. Bull. agric. Congo Belge 43. 1952, 838—868.

Walker, R. L., Spiny bollworm of cotton in Iraq. [Earias insulana] FAO Plant Prot. Bull. 1. 1952, nr. 3, 1 p. (Agric. Bull. (Shell) ADB: 152, 1 p.)

Watts, J. G., Tests with a smoke generating device for cotton insect control. Agric. Chem., Baltimore, 7. 1952, nr. 3, p. 39.

Welch, C. L., The ginner's influence in insect control. Cotton Gin, Oil Mill Press, Dallas (Texas), 53. 1952, nr. 5, p. 22, 24.

Welch, C. L., Pink bollworm. [Pectinophora gossypiella] Proc. amer. Cotton Congr. 13. 1952, 80—85.

Wene, G. P., and White, A. N., Control of migratory boll weevils. [Anthonomus grandis] Texas agric. Exp. Stat. Progr. Rept. 1505. 1952, 3 p.

Whitcomb, W. H., La lucha contra el picudo del algodon [Anthonomus grandis] sus peculiaridades en el tropico. Agric. trop. (Colombia) 8. 1952, nr. 10, p. 15—20.

Wille, J. E., Erfahrungen mit organischen Insektiziden in der Bekämpfung von Baumwollschädlingen in Peru. Ztschr. angew. Ent. 33. 1952, 341—348.

Wille, J. E., El gusano perforador de la hoja del algodonero. [Bucculatrix thurberiella] Vida agric., Lima (Perú), 29. 1952, 785—786.

Wille, J. E., Insectos e insecticidas en la campaña algodonera 1951—1952. Minist. Agric., Div. Def. agríc., Lima (Perú), Julio 1952, 11 p. — Vida agric., Lima (Perú), 29. 1952, 699, 701, 703, 705, 707, 709—714.

Young, M. T., and Gaines, R. C., Insecticide tests for control of the boll weevil, bollworms, cotton aphid and two-spotted spider mite on cotton. Proc. Assoc. south. agric. Workers 49. 1952, 81.

Domestic quarantine notices; pink bollworm [Pectinophora gossypiella] quarantine. US Bur. Ent., Plant Quar. 52. 1952, 13 p.

Guide for controlling cotton insects in Texas, 1951. Texas agric. Coll. Ext. Circ. 182. [1951], 8 p.

Kill! cotton insects. Louisiana agric. Coll. Ext. Publ. 1083 (rev). 1952, 12 p.

1952 cotton insect control recommendations for Alabama, Arizona, Arkansas, California, Georgia, Louisiana, Mississippi, Missouri, New Mexico, North Carolina, Oklahoma, South Carolina, Tennessee and Texas. Nat. Cotton Counc. Amer., Memphis 1952. 31 p.

1952 cotton insect control recommendations for Georgia. Georgia Coastal Plain Exp. Stat. Press Bull. 627. 1952, 5 p.

Properties and effectiveness of Heptachlor. [Anthonomus grandis etc.] Agric. Chem., Baltimore, 7. 1952, nr. 9, p. 35—37, 125—126.

Recommendations. [Empfehlungen, betr. neue Insektizide. Übersicht über Ergebnisse der Baumwollinsekten-Konferenz Memphis, Dezember 1951] Agric. Chem., Baltimore, 7. 1952, nr. 1, p. 52—53, 95—97.

c. Erdnuß
Peanut (groundnut) — Arachide

Bailey, W. K., and Pickett, T. A., Sunlight can damage peanuts during curing. Georgia agric. Exp. State. Press Bull. 640. 1952, 1 p.

Boyle, L. W., Factors to be integrated in control of southern blight on peanuts. Phytopathology 42. 1952, 282 (Abstr.).

Chevaugeon, J., Recherches sur la cercosporiose de l'arachide en Moyenne Casamance. [Cercospora personata (C. arachidicola)] Ann. Épiphyties, Paris, 3. 1952, 489—510, 5 fig.

Cooper, W. E., Control of peanut root knot by soil fumigation and by crop rotation. [Meloidogyne hapla] Phytopathology 42. 1952, 282—283 (Abstr.).

Cooper, W. E., Peanut leafspot control. [Cercospora arachidicola, C. personata] North Carolina agric. Exp. Stat. Spec. Circ. 16. 1952, 7 p.

Crawford, R. F., Seed treatment for control of dampingoff in peanuts. New Mexico agric. Exp. Stat. Bull. 370. 1952, 11 p.

Fronk, W. D., and Dobbins, T. N., (Tests on control of peanut pests with insecticides.) Fazenda, New York, 47. 1952, nr. 2, p. 30—32.

Harris, H. C., Effect of minor elements, particularly copper, on peanuts. Florida agric. Exp. Stat. Bull. nr. 494. 1952, 20 p.

Howe, R. W., Hayward, L. A. W., and Cotterell, G. S., Control measures in 1948—50 against insects attacking groundnuts stored at Kano, northern Nigeria. Bull. ent. Res. 43. 1952, 259—279, 2 fig.

Howe, W. L., and Miller, L., Report on the systemic control of thrips and leafhoppers injurious to peanuts. Virginia J. Sci. (n. s.) 3. 1952, 279.

Jain, A. C., and Nema, K. G., Aspergillus blight of groundnut seedlings. Sci. and Cult., Calcutta, 17. 1952, 348—349.

Jaubert, P., Étude de moyens de lutte contre la cercosporiose de l'arachide au Sénégal. Bull. agron. Minist. France d'outre mer 7. 1952, 167—176.

Jaubert, P., Poursuite des études sur l'emploi de poudres fongicides pour le traitement des semences d'arachides. Bull. agron. Minist. France d'outre mer 7. 1952, 167—176.

Miller, L. I., Control of the sting nematode on peanuts in Virginia. [Belonolaimus gracilis] Phytopathology 42. 1952, 470.

Ritcher, P. O., Kulash, W. M., York jr., E. T., and **Cooper, W. E.,** Control of rootworms affecting peanuts. J. econ. Ent. 45. 1952, 965—969, 2 fig.

Ritcher, P. O., Kulash, W. M., York jr., E. T., and **Cooper, W. E.,** A progress report on control of rootworms affecting peanuts. North Carolina State Coll. (Ent.) Inform. Leafl. nr. 53. 1952, 5 p. (Agric. Bull. (Shell).)

Stannard jr., L. J., Peanut-winged thrips (Thysanoptera: Thripidae). [Arachisothrips n.g.] Ann. ent. Soc. Amer. 45. 1952, 327—330.

Stein, L. H., Alper, T, and **Anderssen, E. E.,** The movement of a radio-phosphorus-labelled insecticide in groundnut plants. J. Sci. Food, Agric., London, 3. 1952, 31—37.

Gambia: Report of the Department of Development and Agriculture for the period 1st June, 1949 to 31st May, 1951. [groundnut rosette disease (virus)] 1952, 27 p.

d. Kakao
Cacao — Cacao

Acland, R., Saving the cocoa crops. [virus] Field, London, 199. 1952, 945—946.

Bartolomé, R., Effect of fertilizer application on the incidence of cherelle wilt of cacao. [Phytophthora palmivora] Rev. interamer. Cienc. agríc., Turrialba (Costa Rica), 2. 1952, nr. 1, p. 9—11.

Castaño A., J. J., Moniliasis del cacao en una region del Departamento de Caldas. Agric. trop. (Colombia) 8. 1952, nr. 6, p. 21—25.

Celso García, B., y **Naundorf, G.,** Control del chancro en el tranco del arbol de cacao. Cacao en Colombia, Palmira, 1. 1952, 51—54.

Desrosiers, R., and **Bolaños, C.,** The possibility of controlling witches' broom disease [Marasmius perniciosus] of cacao with eradicant fungicidal sprays. Proc. inter-amer. techn. Conf. Cacao (Costa Rica) 4. 1952, 90—97.

Desrosiers, R., and **Buchwald, A. v.,** Control of diseases in cacao propagators. Proc. inter-amer. techn. Conf. Cacao (Costa Rica) 4. 1952, 82—88.

Figueroa P., A., Monalonion sp. — plaga importante en el cacao del Valle del Cauca — Colombia. Acta agron., Palmira (Colombia), 2. 1952, 183—193, 9 fig.

García B., C., Plagas del arbol de cacao en el huila. Cacao en Colombia, Palmira, 1. 1952, 41—49, 4 fig.

García B., C., y **Naundorf, G.,** Un año de experimentos sobre control de la moniliasis en cacao. Cacao en Colombia, Palmira, 1. 1952, 31—40.

Goldsmith, M., Gold Coast tests may speed victory over plant diseases. [control of swollen shoot disease of cacao by use of a systemic insecticide known as Hanane] Good Husb. (South. Rhodesia) 2. 1952, nr. 9, p. 9.

Goodchild, A. J. P., A study of the digestive system of the West African cacao capsid bugs (Hemiptera, Miridae). Proc. zool. Soc. London 122. 1952, 543—572.

Greenwood, M., and **Djokoto, R. K.,** Symptoms of mineral deficiency in cacao. J. hortic. Sci., London, 27. 1952, 223—236, 2 tab.

Grimaldi, J., Contribution à l'étude des cryptogames parasites et saprophytes du cacaoyer au Cameroun. Proc. inter-amer. techn. Conf. Cacao (Costa Rica) 4. 1952, 145—167.

Hanna, A. D., Investigations on the use of systemic insecticides to control the mealybug vector of the swollen shoot disease in cocoa. Proc. 3rd int. Congr. Crop Prot., Paris 1952.

Hanna, A. D., Heatherington, W., and **Judenko, E.,** Control of mealybug vectors of the swollen shoot virus by a systemic insecticide. Nature, London, 169. 1952, 334.

Hecht, O., Nota acerca de Selenothrips rubrocinctus Giard, plaga del cacaotero. Fitófilo, San Jacinto (México), 6. 1952, nr. 5, p. 33—42.

Holliday, P., Witches' broom disease of cacao (Marasmius perniciosus Stahel.). Colonial 286. 1952, 8 p.

McLaughlin, J. H., Fungicidal control of Phytophthora palmivora Butl. on Theobroma cacao L. in Costa Rica. Cacao 2. 1952, nr. 25/27, p. 1—2.

Malaguti, G., Ceratostomella fimbriata en el cacao de Venezuela. Acta cient. venezol. 3. 1952, 94—97.

Naundorf, G., El cacao como paciente. Cacao en Colombia, Palmira, 1. 1952, 83—85, 1 fig.

Naundorf, G., Influencia de algunos fungicidas sobre fecundacion y fructificacion en el cacao. Cacao en Colombia, Palmira, 1. 1952, 71—82, 4 fig.

Naundorf, G., y **Miller, M. R.,** Influencia de algunos insecticidas sobre la fecundacion de cacao. Cacao en Colombia, Palmira, 1. 1952, 87—88.

Nichol, J., Systemic insecticides and the mealybug vectors of swollen-shoot virus in cacao. Nature, London, 19. 1. 1952, 120.

Parham, B. E. V., Cacao in Fiji — review and prospects. [Phytophthora palmivora] Agric. J. Dept. Agric. Fiji 23. 1952, nr. 2, p. 13—24, 6 fig.

Siller, L., The efficacy of fungicides against Phytophthora palmivora Butl. Cacao (int.-amer. Cacao Cent.) 2. 1952, nr. 2, p. 34—36.

Thorold, C. A., Airborne dispersal of Phytophthora palmivora, causing black-pod disease of Theobroma cacao. Nature, London, 170. 1952, 718—719.

Thorold, C. A., The epiphytes of Theobroma cacao in Nigeria in relation to the incidence of black-pod disease (Phytophthora palmivora). J. Ecol., London, 40. 1952, 125—142, 3 fig.

Van der Knaap, W. P., (A new pest in cacao plantings.) Bergcultures, Batavia, 21. 1952, 19—20.

Young, H. E., The control of bark rot and canker bark rot. [Phytophthora palmivora] Rubber Res. Inst. Ceylon Adv. Circ. 21. 1952, 5 p.

Arrêté du 30 septembre 1952 relatif à l'importation de plants de cacaoyers, de cacao en cabosse ou en fèves et brisures de fèves (non torréfié), coques, pelures, pousses et pellicules de cacao. [Marasmius perniciosus] Agron. trop. 7. 1952, 659.

Ārùn kòrìkòrì. (Black pod disease.) [Phytophthora perniciosus] Cocoa Mark. Board, Public Rel. Off., Nigeria ?1952. 32 p., 19 fig. col.

Control of cocoa shoot disease, the use of »Hanane« in the Gold Coast. Chem. and Ind. (Rev.), London, nr. 11. 1952, 241.

Dieldrin for the control of the cocoa pod borer (Monalanium dissimulatum) and the cocoa stem borer Xyleborus sp.). Agric. Bull. (Shell) ADB. 249. 1952, 1 p.

Disease problems of cacao in Cuba. Cacao (int.-amer. Cacao Cent.) 2. 1952, nr. 25—27, p. 3.

e. Kaffee
Coffee — Café

Abrahão, J., (Root rot of coffee.) [Rosellinia] Fazenda, New York, 47. 1952, nr. 2, p. 46.

Alvarez García, L. A., Estudios de enfermedades de la raiz del cafeto en Puerto Rico. Rev. Café (Puerto Rico) 8. 1952, nr. 5, p. 5—6.

Bemelmans, J., A potassa na adubação do cafeeiro. Bol. Superintend. Serv. Café, São Paulo, 27. 1952, 215—216, 2 tab. col.

Berry, P. A., and **Calderon, R.,** Plagas serias del cafeto en El Salvador. [coccus viridis, Saissetia hemisphaerica and Epicaerus near capetillensis] Lamatepec (Assoc. cafet. El Salvador) 15. 1952, 3213—3215.

Blanco, G., Enfermedad fungosa de la hoja del cafeto (Hemileia vastatrix). Lamatepec (Assoc. cafet. El Salvador) (ser. 2) 16. 1952, 3471—3473. — Café (Ecuador) 20. 1952, 2—6.

Blanco, G., Temible enfermedad fungosa de la hoja del cafeto. [Hemileia vastatrix] Bol. Asoc. Gen. Agric. Guatemala 326. 1952, 2.

Calza, R., e **Sauer, H. F. G.,** A aranha vermelha dos cafezais. (Red spider on coffee.) [Paratetranychus ilicis] Biológico, São Paulo, 18. 1952, 201—208.

Crandall, B. S., e **Patiño, B.,** El mal del talluelo del café. [Rhizoctonia solani] Café El Salvador 22. 1952, 107—109.

Decastro, V., Enfermedades y plagas más dañinas al cafetal en Puerto Rico. Rev. Café (Puerto Rico) 8. 1952, nr. 4, p. 7, 24.

Duque, J. P., La podredumbre radial [Rosellinia pepo] de las raíces del cafeto. Com. Nac. Café México 1952. 107 p.

Fraselle, J. V., et **Geortay, G.,** Une grave maladie du caféier »Robusta«: la trachéomycose. Avertissement et conseils aux planteurs. Bull. Inform. Inst. Études agron. Congo belge 1. 1952, nr. 1—2, p. 87—102, 6 fig.

González, C., and **Camacho, C.,** Symptoms of boron deficiency in the coffee tree. Costa Rica Minist. Agric. Techn. Bull. 11. 1952.

González Mendoza, R., Algunas investigaciones relativas a la mosca de las frutas y cerezas de café (Anastrepha spp.). Bol. Inform. Centro Nac. Invest. Café (Colombia) 3. 1952, nr. 32, p. 32—35.

Havis, J. R., Daños en cafetos causados por herbicides. (Injury to coffee trees caused by herbicides.) Turrialba (Costa Rica) 2. 1952, 170—171, fig.

Junqueira, G. M., Pantomoris godmani (Crotch): um depredador ocasional do cafeeiro. (Pantomorus godmani (Crotch): an occasional pest of coffee.) Solo, Piracicaba, 44. 1952, nr. 2, p. 51—58, fig.

Lavabre, Sur une plante pouvant héberger la punaise du caféier, Antestia lineaticollis S/sp. intricata Ghesq. et Carayon. Agron. trop., Nogent-sur-Marne, 7. 1952, 150—151.

Lefèvre, P. C., Derris powder, pyrethrum powder, and DDT in the fight against Antestia prox. lineaticollis Stål. Pyrethrum Post 1. 1948, 20—23.

Leggieri, G., (Coffee attacked by Hypothenemus hampei.) [extent of damage produced] Chimica, Milano, 7 (n. ser.). 1952, 88—93.

McMaster, P. G., and **Solly, N. R.,** Coffee and its economics in Kenya. VII. Diseases and pests. Mon. Bull. Coffee Board Kenya 17. 1952, 154—156.

Melville, A. R., A note on coffee and its economics in Kenya. Mon. Bull. Coffee Board Kenya 17. 1952, 210—211.

Michelmore, A. P. G., Section of Entomology. General progress report. Coffee. Uganda Dept. Agric. Rec. Invest. nr. 2 (1949/50). 1952, 13—15.

Morales, E., Observaciones sobre algunos insectos de importancia economica en el cultivo del café. Mensajero agríc. (Perú) 77. 1952, 59. — Suelo Tico, San José (C. R.), 6. 1952, nr. 27, p. 31—36.

Morris, J. G. L., Control of white stem borer of coffee with the use of »Agrocide«. Indian Coffee (Mon. Bull. Indian Coffee Board) 16. 1952, 194.

Narasimhaswamy, R. L., Leaf disease resistance and its importance in coffee. [Hemileia vastatrix] Indian Coffee (Mon. Bull. Indian Coffee Board) 16. 1952, nr. 2, p. 26—28.

Newcomer, E. J., (Report on a study of a program to control the coffee borer (Stephanoderes hampei) in Brazil.) Bol. Superintend. Serv. Café, São Paulo, 27. 1952, 134—144.

Osuna, P., Insectos del repollo; tres productos para matarlos. Rev. Café (Puerto Rico) 7. 1952, nr. 11, p. 15.

Pedreira, A. C., Contrôle da erosão nos cafèzais. (Erosion control in coffee plantations.) Ceres (Minas Gerães) 9. 1952, nr. 49, p. 54—60.

Pinto Viegas, A., Llaga negra del cafeto. Bol. Inform. Centro Nac. Invest. Café (Colombia) 3. 1952, nr. 26, p. 33—34.

Primrose, C., An experiment against green bug. [Toxoptera graminum] Indian Coffee (Mon. Bull. Indian Coffee Board) 16. 1952, 44—52.

Rayner, R. W., Coffee berry disease—a survey of investigations carried out up to 1950. East afr. agric. J. 17. 1952, 130—158, 2 tab.

Rayner, R. W., Spraying in time can prevent leaf rust. Mon. Bull. Coffee Board Kenya 17. 1952, 9.

Suárez de Castro, F., Potencialidad erosiva de las lluvias dentro de un cafetal y al aire libre. (The erosive force of rain in a coffee plantation and in the open.) Bol. Inform. Centro Nac. Invest. Café (Colombia) 3. 1952, nr. 32, p. 21—31, fig.

Swain, R. B., and **Morales Agacino, E.,** Los grillos del cafeto en Nicaragua. [Idiarthron atrispinum] Hacienda 47. 1952, nr. 7, p. 48—49; nr. 8, p. 56—57.

Tapley, R. G., Dieldrin for the control of ants (Pheidole sp.) and green scale insects (Coccus africanus) on coffee. Agric. Bull. (Shell) ADB. 193. 1952, 1 p.

Urhan, M., Análisis de hojas. (Foliar diagnosis.) Bol. Inform. Colombia 3. 1952, nr. 33, p. 18—26.

Urhan, O., Contribución al estudio de la Crespera. (Contribution to the study of the »crespera« disease of the coffee bush.) [mineral deficiency] Bol. Inform. Colombia 31. 1952, 17—24, fig.

Wellman, F. I., Peligro de introducción de la Hemileia del café a las Américas. (The risk of introduction of the coffee Hemileia into the Americas.) [H. vastatrix] Turrialba (Costa Rica) 2. 1952, nr. 2, p. 47—50.

Arrêté du 30 septembre 1952, relatif à l'importation de plants de caféier, cerises de café, fraîches ou sèches, grains en parches et grains de café décortiqués, frais ou secs et non grillés. [Hemileia vastatrix] Agron. trop. (Venezuela) 7. 1952, 659.

Estudio des enfermedades del café en Africa y Oriente bajo auspicios del Punto Cuarto. Fed. Cafet. Centro Amer., México, Caribe, San Salvador, 1952, 6 p.

A **progress report** on the chemical control of the coffee mealybug and of its attending ant. [Pseudococcus kenyae] Mon. Bull. Coffee Board Kenya, June 1952, 4 p., 7 fig.

f. Kautschuk
Caoutchouc — Caoutchouc

Barnet, G. W. D., Mechanical felling of rubber trees. [Fomes lignosus] Rubber Res. Inst. Ceylon Adv. Circ. 33. 1952, 6 p., 3 fig.

Constable, D. H., Testing of tree killing substances on Hevea brasiliensis. I. Quart. Circ. Rubber Res. Inst. Ceylon 28. 1952, nr. 1/2, p. 26.

Darley, E. F., and **Silverborg, S. B.,** Black thread of Hevea brasiliensis in Liberia. Phytopathology 42. 1952, 547—558, 7 fig.

Hilton, R. N., Bird's eye spot leaf disease of the Hevea rubber tree caused by Helminthosporium heveae Petch. J. Rubber Res. Inst. Malaya 14. 1952, nr. 280, p. 42—92, 10 tab.

Huntley, G., Oidium and sulphur. Quart. Circ. Rubber Res. Inst. Ceylon 27. 1952, nr. 1—2, p. 23—28.

John, K. P., A hitherto undescribed leaf disease of Hevea rubber caused by a species of Colletotrichum. [C. derridis] J. Rubber Res. Inst. Malaya 14. 1952, Commun. 278, p. 11—19, 3 fig., 3 tab.

Kaimal, K. N., Weeds and cover plants in rubber plantations. Bull. indian Rubber Board 2. 1952, 6—15.

Lasschuit, J. A., en **Vollema, J. S.,** De meeldauwresistente cloon LCB 870. (The mildew resistant clone LCB 870.) [Hevea] Bergcultures, Batavia, 21. 1952, 257—261.

Schweizer, J., Het doden van oude Hevea-aanplantingen met natrium-arseniet. Bergcultures, Batavia, 21. 1952, 340—343, 345, 347—349, 12 fig.

Simonart, P., Bactéries et latex. Bull. agric. Congo belge 43. 1952, 63—68.

Soesman, J. G., Heveatapvlak-ziekten en haar bestrijding. (Tapping diseases of Hevea and their control.) Bergcultures, Batavia, 21. 1952, 243—245, fig.

Tixier, P., Oidium des heveas. Courrier agric., Paris, 17. 1952, nr. 5, p. 2.

Vollema, J. S., Over een tot dusver niet bekende wijze van optreden van de schimmel Ustulina maxima in rubbertuinen. (On a hitherto unknown mode of occurrence of the fungus Ustulina maxima in rubber gardens.) Bergcultures, Batavia, 21. 1952, nr. 2, p. 20—21.

Waite, B. H., and Dunlap, V. C., South American leaf blight on Hevea rubber in Honduras. Plant Dis. Reptr. 36. 1952, 368.

Young, H. E., Crown budding for Oidium resistance. [Oidium heveae] Quart. Circ. Rubber Res. Inst. Ceylon 27. 1952, 16—18, 23—28.

Young, H. E., Leaf mildew of rubber — review. [Oidium heveae] Quart. Circ. Rubber Res. Inst. Ceylon 27. 1952, nr. 1—2, p. 3—15.

Young, H. E., Root disease in replanted areas. [Fomes] Quart. Circ. Rubber Res. Inst. Ceylon 27. 1952, nr. 1—2, p. 19—23.

Choice of clones and clonal seedlings: planting recommendations for 1952—1953. Rubber Res. Inst. Malaya Circ. 37. 1952, 6 p.

A planter's note on the spraying of rubber trees by the newly invented prototype Drake & Fletcher »Mistejecta«. [Phytophthora meadii] Planters Chron. 57. 1952, 426—428, 1 fig.

Stump poisoning and root disease. [Fomes lignosus, F. noxius, Ganoderma pseudoferreum] Rubber Res. Inst. Malaya Circ. 36. 1952, 3 p.

g. Knollengewächse
Tuberous plants — Plantes à tubercules

Asuyama, H., (Internal cork of sweet-potatoes in the USA and its resemblance to the feathery mottle in Japan.) J. Plant Prot., Tokyo, 42. 1952, 452—454.

Aycock, R., and Hughes, M. B., Sweet-potato clones whose roots serve as symptomless carriers of internal cork virus. Phytopathology 42. 1952, 428—430, 1 fig.

Borget, M., Note sur un essai de saignée du ceara, Manihot glaziovii Muell. Arg., réalisé à la Station de Boukoko (Oubangui). Agron. trop. 7. 1952, 367—372.

Cockerham, K. L., and Harrison, P. K., New sweet-potato seedlings that appear resistant to sweet-potato weevil attack. J. econ. Ent. 45. 1952, 132.

Cook, H. T., Control of sweet-potato scurf by vine cuttings. Phytopathology 38. 1948, 568 (Abstr.).

Endo, T., (A counter-plan of control of sweet-potato feathery mottle.) J. Plant Prot., Tokyo, 42. 1952, 443—445.

Evans, G. O., A new typhlodromid mite predaceous on Tetranychus bimaculatus Harvey in Indonesia. [Typhlodromus longispinosus on Tetranychus bimaculatus on Manihot utilissima] Ann., Mag. natural Hist., London, 5. 1952, 413—416, 2 fig.

Feazell, G. D., and Martin, W. J., Evaluation of eradicant fungicides against Ceratostomella fimbriata. [sweet-potato] Phytophatology 42. 1952, 7 (Abstr.).

Feazell, G. D., and Martin, W. J., Fungicides for use on sweet-potato washing machines contaminated with Ceratostomella fimbriata. Proc. Assoc. south. agric. Workers 49. 1952, 130—131 (Abstr.).

Floyd, E. H., Results of soil treatment tests with chlordane for control of the sweet-potato weevil. [Cylas formicarius elegantulus] Proc. Assoc. south. agric. Workers 49. 1952, 88 (Abstr.).

Franco, E., (»Mold« of yams.) [Pseudococcus maritimus] Seleç. agríc. (Brasil) 7. 1952, nr. 70, p. 43—45.

Goto, K., and Tagami, Y., (Varietal susceptibility of sweet-potatoes to black rot and its mechanism. I. Factors influencing the infection of roots in the field and their interrelation. Ann. phytopath. Soc. Japan 17. 1952, 16—20, 2 fig.

Goto, S., and Hasuko, E., (On the treatment with chloropicrin for the nematic root rot of sweet-potato.) Kyushu Noji Shikenjo 10. 1952, 149—150.

Griffin, J. A., Control of soil insects on sweet-potatoes. Agric. Bull. (Shell) ADB 169. 1952, 6 p.

Guilbeau, S., Mikell, J. J., and Miller, J. C., A study of the inheritance of Fusarium wilt resistance in sweet-potatoes. Proc. Assoc. south. agric. Workers 49. 1952, 107—108.

Hooker, W. J., and Peterson, L. E., Sulfur soil treatment for control of sweet-potato soil rot incited by Streptomyces ipomoea. Phytopathology 42. 1952, 583—591, 5 fig.

Hughes, M. B., and Aycock, R., Sweet-potato clones resistant to internal cork. Proc. amer. Soc. hortic. Sci. 59. 1952, 433—438.

Iura, M., and Chuman, K., (Investigations of the damage of sweet-potato by the typhoon Ruth. I—II.) Kyushu Noji Shikenjo 10. 1952, 53—56.

Kushman, L. J., and Deonier, M. T., Effect of curing and storage temperatures on development of internal cork in sweet-potato roots. Proc. amer. Soc. hortic. Sci. 60. 1952, 359—362.

Lutz, J. M., Influence of temperature and length of curing period on keeping quality of Porto Rico sweet-potatoes. Proc. amer. Soc. hortic. Sci. 59. 1952, 421—425.

Mullin, R. S., Control of cracking in sweet-potato by soil fumigation. Phytopathology 42. 1952, 15 (Abstr.).

Nielsen, L. W., Effect of temperature on the development of internal cork lesions in sweet-potato roots. Phytopathology 42. 1952, 625—627, 2 fig.

Nishizawa, T., (Studies on the sweet-potato canker. VII. On the relation of atmospheric humidity to the germination and viability of the conidia and chlamydospores of Fusarium solani (Mart.) App. et Wr.) Kyushu Noji Shikenjo 9. 1952, 21—22.

Rankin, H. W., Progress report on internal cork of sweet-potatoes. [virus] Phytopathology 42. 1952, 287 (Abstr.).

Roberts, R. A., Sweet-potato weevil. US Dept. Agric. Yearb. Agric. 1952, 527—530, 1 fig.

Safeeulla, K. M., Morphological and cytological studies of Albugo species on Ipomoea hederacea. Curr. Sci., Bangalore, 21. 1952, 287—288, 3 fig.

Sherman, M., The control of sweet-potato insects. Hawaii Univ. Agric. Ext. Circ. 320. 1952, 2 p.

Simons jr., H. M., and **Scott, L. E.,** Attempts to inhibit sprouting of the sweet-potato with growth regulating chemicals. [use of preharvest foliar sprays and dip root treatment] Proc. amer. Soc. hortic. Sci. 59. 1952, 426—432.

Stanley, W. W., and **Marcovich, S.,** Tests with soil insecticides to control pinhole injury on sweet-potato. Proc. Assoc. south. agric. Workers 49. 1952, 89.

Stoner, W. N., Internal cork of sweet-potato observed in South Florida. Plant Dis. Reptr. 36. 1952, 337.

Suzuki, N., and **Uritani, I.,** (On some constituents showing positive reaction by Ehrlich's aldehyde reagent in brown-rotted tissues of sweet-potato.) [Helicobasidium mompa, Ceratostomella fimbriata, Thielavia basicola] Ann. phytopath. Soc. Japan 16. 1952, 54—56.

Tagami, Y., (On a new virus disease of sweet-potato.) J. Plant Prot., Tokyo, 33. 1952, 116—117.

Walker, J., Leaf spot and die-back of sweet-potato (Impomoea batatas). Austr. Plant Dis. Recorder 4. 1952; 31.

Domestic quarantine notices; amendment of sweet-potato quarantine. US Dept. Agric. Bur. Ent., Plant Quar. B.E.P.Q.-Q. 30. 1952, 1 p.

Rot resistant yam may be developed. [Ceratocystis fimbriata] Seed World 71. 1952, nr. 9, p. 47.

h. Kokosnuß und andere Palmen
Coconut and other palms
Cocotier et autres palmiers

Barrera, A., Algunas observaciones sobre las ratas que constituyen plaga en los cocotales de la Costa Chica de Guerrero. Fitófilo, San Jacinto (México), 6. 1952, nr. 7, p. 5—10.

Bliss, D. E., Controlling fruit spoilage in dates. [Aspergillus niger, Alternaria citri] Phytopathology 37. 1947, 360 (Abstr.).

Butarobol, C., (Rat control for coconut plantation.) Kasikorn (Thailand) 25. 1952, 465—467.

Chevaugeon, J., Principes de lutte contre les pourridiés du palmier à huile. Oléagineux, Paris, 7. 1952, 25—27.

Cipolla, G., Nota sobre la enfermedad de la palmera datilera denominada »Diplodia«. IDIA (Inform. Invest. agríc.), Buenos Aires, 5. 1952, nr. 49, p.21—22.

De Leon, D., Kadang-kadang disease of coconuts in the Philippines. Foreign Agric., Washington, 16. 1952, 103.

Dharmaraju, E., The biological control of the black headed caterpillar of coconut (Nephantis serinopa M.) in the East Godavari district of Madras State. Indian Coconut J. 5. 1952, 171—176.

Franssen, C. J. H., and **Tjo Tjien Mo,** Biological control of coconut infestations in South West Celebes. Landbouw 24. 1952, 319—360.

Hansen, H. P., On the so-called »unknown disease« and related diseases on coconut-palms in the West Indies. Plant Dis. Reptr. 36. 1952, 66—67.

Hansen, H. P., Unknown disease and related diseases of coconut palms in the West Indies. J. Soil Sci. Soc. Philippines 4. 1952, 47—49.

Kovachich, V. G., Abnormal roots in oil palms in the Belgian Congo. Trop. Agric., Trinidad, 29. 1952, 29—34, fig.

Kovachich, V. G., Little leaf disease of the oil palm (Elaeis guineensis) in the Belgian Congo. Trop. Agric., Trinidad, 29. 1952, 107—114, fig.

Lilly, V. G., et al., Observations on the inhibitory activity of a species of bacterium on some fungi parasitic on the coconut palm. Indian Coconut J. 5. 1952, 162—170.

Mahadevan, V., Weeds on coconut lands. Ceylon Coconut Quart., Lunnwila, 3. 1952, 33.

Mariconi, F. A. M., (Palm worms.) [Brassolis] Biológico, São Paulo, 18. 1952, 103—107.

Martyn, E. B., Diseases of coconuts in Trinidad and Tobago. J. agric. Soc. Trinidad-Tobago 52. 1952, 145—147, 149.

Menon, K. P. V., and **Nair, U. K.,** Scheme for the investigation of the root and leaf diseases of the coconut palm in south India. Indian Coconut J. 5. 1952, 81—100.

Menon, K. P. V., Nair, U. K., and **Pandalai, K. M.,** Influence of water-logged soil conditions on some fungi parasitic on the roots of the coconut palm. Indian Coconut J. 5. 1952, 71—79.

Mesa Bernal, D., Consideraciones sobre la enfermedad del cocotero denominada »hoja pequeña« o »porroca«. Rev. nac. Agric., Bogotá, 46. 1952, nr. 567, p. 23—26, 28—30, 32—34, 36—38.

Murillo, L. M., Las afecciones de las palmas de coco de las Islas de Barú. Agric. trop. (Colombia) 8. 1952, nr. 11, p. 49—56.

Nirula, K. K., The coconut caterpillar [Nephantis serinopa] and its control. Bull. indian Central Coconut Comm. 6. 1952, 88—89.

Nirula, K. K., Antony, J., and **Menon, K. P. V.,** Investigations on the pests of the coconut palm. The rhinoceros beetle (Oryctes rhinoceros L.). Indian Coconut J. 5. 1952, 57—70.

Richardson, A. M., The Rayford Park date grove. Queensland agric. J. 75. 1952, 253—262, fig.

Rodriguez Landaeta, A., El anillo rojo del cocotero. [Aphelenchus cocophilus] Agro, [El Valle], 6. 1952, nr. 20, p. 13—18.

Rygg, G. L., The effect of sulfur dust and exposure to high temperatures on the sulfur content and acidita of immature Deglet Noot dates. Proc. amer. Soc. hortic. Sci. 60. 1952, 204—208.

Salgado, M. L. M., Note on the breeding of red weevil in crowns of palms recently felled. Ceylon Coconut Quart., Lunnwila, 3. 1952, 107.

Sankarasubramony, H., Pandalai, K. M., and **Menon, K. P. V.,** On the nutritive contents of the leaf tissues of the coconut palm in health and in disease. Indian Coconut J. 6. 1952, 7—18.

Serrano, P., The kadang kadang menace. [virus on coconut Agric., ind. Life (Philippines) 14. 1952, nr. 5, p. 25.

Singh, S. R., Notes on the life-history of the coconut leaf moth, Agonoxena argaula Meyr. Agric. J. Dept. Agric. Fiji 23. 1952, 106—107.

Smirnoff, W., La cochenille blanche du palmier-dattier au Maroc (lutte biologique). [Parlatoria blanchardi] Compt. rend. Soc. Sci. nat., phys. Maroc nr. 3. 1952, 62.

Sundararaj, D. D., Morphology of the normal and abnormal fruits in coconut (Cocos nucifera, Linn.). Indian Coconut J. 5. 1952, 149—152, fig.

i. Nutzhölzer
Timbers — Bois d'œuvre

Baer, J. G., Le mâle d'un Phoride commensal des Achatines de la forêt tropicale africaine. (Communication préliminaire.) [Wandolleckia achatinae a synonym of W. biformis] Rev. suisse Zool. 59. 1952, 239.

Bagchee, K., A review of work on Indian tree diseases and decay of timber and methods of control. Indian Forester, Dehra Dun, 78. 1952, 540—546.

Bhattacharyya, B., Datta, A., and **Baruah, H. K.,** On the formation and development of agaru in Aquilaria agallocha. [Epicoccum pranulatum] Sci. and Cult., Calcutta, 18. 1952, 240—241, 3 fig.

Bouriquet, G., La maladie chancreuse de l'Aleurites. Phytoma, Paris, 5. 1952, nr. 37, p. 11—12, 3 fig.

Bytinski-Salz, H., Two important tree borers in Israel. [Eucalyptus] FAO Plant Prot. Bull. 1. 1952, 38—39.

Bytinski-Salz, H., and **Neumark, S.,** The eucalyptus borer (Phoracantha semipunctata F.) in Israel. Trans. IXth int. Congr. Ent., Amsterdam, 1 (1951). 1952, 698—699, 2 fig.

Chavency, A., L'abrasin en Indo-Chine. [Aleurites montana] Agron. trop. 7. 1952, 567—588, 2 fig., 4 tab. geogr.

Durand-Reville, L., Nous devons proteger l'exploitation des bois tropicaux français. Rev. int. Prod. colon., Paris, 27. 1952, 29, 31.

Harrow, K. M., and **Thompson, H. R.,** Impregnation of tawa (Beilschmiedia tawa Benth. and Hook. f.) with boric acid by diffusion. III. Sampling of timber treated with boric acid. New Zealand J. Sci., Technol. (B) 33. 1952, 385—392, 1 fig.

Headley, A. E., Colonies of ants in a locust woods. Ann. ent. Soc. Amer. 45. 1952, 435—442.

Johnson, M. D., and **Allen, O. N.,** Nodulation studies with special reference to strains isolated from Sesbania species. Antonie van Leeuwenhoek, J. Microbiol., Serol., 18. 1952, 13—22.

Kalshoven, L. G. E., Survival of Neotermes colonies in infested teak trunks after girdling or felling of the trees. Tectona, Semarang, 42. 1952, 1—7.

Lamb, A. F. A., Annual administrative report of the conservator of forests, Trinidad and Tobago, for the year 1951. 1952, 28 p., 1 tab. geogr.

Miller, P. R., and **Gravatt, G. F.,** The sweetgum blight. [on Liquidambar styraciflua] Plant Dis. Reptr. 36. 1952, 247—252, 8 fig.

Ortíz Garmendía, J., El arbol del paraiso y su acción tóxica en cerdos y conejos. [Melia azedarach] Campesino, Santiago, 84. 1952, 19.

Ramakrishnan, T. S., and **Sundaram, N. V.,** A new rust on Antidesma in India. [Cystospora antidesmatis n. sp.] Trans. brit. mycol. Soc. 35. 1952, 26—28.

Rhoads, A. S., The destructiveness of Clitocybe root rot to plantings of Casuarina in Florida. Lloydia, Cincinnati (Ohio), 15. 1952, 161—184, 6 fig.

Rungs, C., Contribution à la connaissance des ennemis de l'arganier Argania spinosa (L.). Bull. Soc. Sci. naturelles Maroc, Rabat, 32. 1952, 61—76.

Vergarac, C., La esclerotiniosis del Eucalipto. [Sclerotinia fuckeliana] Simiente, Santiago de Chile, 22. 1952, 174—176.

Wiehe, P. O., Bibliography of the fungi and bacteria associated with tung (Aleurites spp.). Plant Dis. Reptr. Suppl. 216. 1952, 189—199.

Wiehe, P. O., Life cycle of Botryosphaeria ribis on Aleurites montana. Phytopathology 42. 1952, 521—526, 3 fig.

Forest research in India, 1948—49. Part I. The Forest Research Institute. Dehra Dun 1952. 111 p.

k. Obst
Fruits — Fruits

Bartlett, B., and **deBach, P.,** Enemies of avocado pests; parasites and predators if protected by sparing use of insecticides will keep avocado pests in check. Calif. Agric. (Calif. Stat.) 6. 1952, nr. 5, p. 14.

Bartlett, B., and **deBach, P.,** Protect natural enemies of avocado pests. Calif. Citrogr. 37. 1952, 200.

Batista, A. C., Necrose basal das folhas da mangueira. E descrição de Ascochyta mangiferae n. sp. e Didymella mangiferae n. sp. (Basal necrosis of mango leaves. And a description of Ascochyta mangiferae n. sp. and Didymella mangiferae n. sp.) Bol. Secr. Agric., Ind., Com. Pernambuco 19. 1952, 165—171, 7 fig.

Batra, H. N., and **Renjhen, P. L.,** The mango-fruit fly (Dacus ferrugineus) and its control. Indian Farming 2. 1952, 20—21.

Bird, J., and **Adsuar, J.,** On the viral nature of papaya bunchy top. Phytopathology 42. 1952, 3 (Abstr.).

Bird, J., and **Adsuar, J.,** Viral nature of papaya bunchy top. J. Agric. Univ. Puerto Rico 36. 1952, nr. 1, p. 5—11, 1 fig.

Brun, J., Une anomalie des fruits d'ananas en Côte-d'Ivoire. Fruits 7. 1952, 23.

Brun, J., Le »bleu« du bananier en Guinée française. [Mg und Mg/K-Mangel] Fruits d'outre mer, Paris, 7. 1952, 324—329.

Brun, J., Sur quelques parasites responsables des anthracnoses de la papaye. Fruits 7. 1952, 271—272.

Brun, J., et **Py, C.,** Symptômes foliaire de carence en zinc sur l'ananas en Guinée Française. Fruits d'outre mer, Paris, 7. 1952, 62—64, 4 fig.

Cann, H. J., Bunchy top virus of bananas »at all time low« in N.S.W. Agric. Gaz. New South Wales 63. 1952, 73—76, 4 fig.

Cannon, R. C., Weed sprays in pineapples. Queensland agric. J. 75. 1952, 139—141.

Cardeñosa B., R., Investigaciones sobre la »rayadilla« del platano (Musa sp.) en Colombia. (Research on the rayadilla disease of plantains in Colombia.) [Musa] Acta agron. (Colombia) 2. 1952, 1—21.

Carter, W., Organic phosphates as systemic insecticides on pineapple plants. J. econ. Ent. 45. 1952, 981—984.

Castillo, B. S., Transmission studies of banana mosaic in the Philippines. Plant Ind. Digest (Philipp. Bur. Plant Ind.) 15. 1952, nr. 10, p. 39.

Chevalier, A., Les jujubiers ou Zizyphus du Sahara. Rev. int. Bot. appl., Agric. trop., Paris, 32. 1952, 574—577.

Clément, P., Les nématodes nuisibles aux cultures fruitières tropicales. Fruits 7. 1952, 424—435.

De A. Drummond, O., and **Villani, R.,** (A rot of mango and kaki persimmon in Belo Horizonte.) [Mucor flavens] Bol. Agric. Minas Gerais (Brasil), Serv. Prod. veg., 1. 1952, nr. 4, p. 25—27.

De Toledo, A. A., (Preliminary notes on the control of the banana root borer, Cosmopolites sordidus Germ.) Biológico, São Paulo, 18. 1952, 145—152.

Farmer, A., Pests and diseases of persimmons in New Zealand, and their control. Orchardist New Zealand 25. 1952, nr. 4, p. 4—9.

Fleschner, C. A., and **Akakawa, K. Y.,** The mite Tydeus californicus on citrus and avocado leaves. J. econ. Ent. 45. 1952, 1092, 1 fig.

Fleschner, C. A., and **Ricker, D. W.,** Potential mite (Paratetranychus platani) pest on avocados. Calif. Citrogr. 37. 1952, 310.

Fletcher, W. A., Passionfruit culture. [Passiflora edulis] New Zealand Dept. Agric. Bull. 135. 1952, 11 p.

Frezzi, M. J., Phytophthora cinnamomi y su relación con la muerte de los paltos en Urundel (Salta), Argentina. Rev. argent. Agron. 19. 1952, 214—219.

González Mendoza, R., Contribución al estudio de las moscas Anastrephas en Colombia. (A contribution to the study of Anastrepha fruit flies in Colombia.) Rev. Fac. nac. Agron., Medellín (Colombia), 12. 1952, 423—550.

Gray, R. A., Composition of honeydew excreted by pineapple mealybugs. Science, Lancaster, 115. 1952, 129.

Guyot, H., et al., Les traitements chimiques des hampes et la pourriture des régimes de bananas. Fruits d'outre mer, Paris, 7. 1952, 380—384.

Hendrix, J. W., Influence of certain small quantities of 2, 4-D on bananas. Hawaii. agric. Exp. Stat. Bull. nr. 106. 1952, 20 p.

Hernández-Medina, E., The apparent degeneration of pineapple slips in Puerto Rico. J. Agric. Univ. Puerto Rico 36. 1952, 302—317.

Hood, J. D., A new Frankliniella injurious to banana (Thysanoptera, Thripidae). Proc. biol. Soc. Washington 65. 1952, 137—139.

Jain, A. C., and **Mahmud, K. A.,** Collar rot of Murraya koenigii Spreng. [Corticium solani] Nagpur agric. Coll. Mag. 27. 1952, nr. 1—4, p. 18.

Linford, M. B., Pineapple diseases and pests in Mexico. [?Erwinia ananas, mottle, Phytophthora etc.] FAO Plant Prot. Bull. 1. 1952, nr. 2, p. 21—25.

Lordello, L. G. E., (Insects living on Passiflora. 2. Contribution to the knowledge of Cacoscelis famelica (F., 1787) (Col., Chrysomelidae).) Dusenia (Brasil) 3. 1952, 387—393.

Malaguti, G., and **Pontis Videla, R. E.,** La podredumbre [Phytophthora cinnamomi] de las raíces del aguacate (Persea americana Mill.) en Venezuela. Agron. trop., Maracay, 2. 1952, 77—82.

Marcelli, E., Un'alterazione delle banane provenienti dalla Somalia causata dal Gloeosporium musarum Cooke et Massee. (A disease of banana from Somaliland caused by Gloeosporium musarum Cooke et Massee.) Not. Mal. Piante nr. 20. 1952, 22—26.

Marfil, S. D., Smudging mangoes in C.L.A.C. (Central Luzon Agricultural College). Agric., ind. Life (Philipp.) 14. 1952, nr. 4, p. 21.

Mariconi, F. A. M., O percevejo do maracujá, Diactor bilineatus (Fabr., 1803). (The passion fruit bug, Diactor bilineatus.) Biológico, São Paulo, 18. 1952, 116—120.

Martorell, L. F., and **Adsuar, J.,** Insects associated with papaya virus diseases in the Antilles and Florida. J. Agric. Univ. Puerto Rico 36. 1952, 319—329. — J. econ. Ent. 45. 1952, 863—869.

Menezes Mariconi, F. A., Alguns percevejos das frutas. (Some plant bugs on fruit trees.) [Leptoglossus gonagra, L. fasciatus, L. stigma] Biológico, São Paulo, 18. 1952, 181—187.

Merny, G., Occurrence of banana leaf-spot disease in the French West Indies. [Cercospora musae] Caribbean Comn. Mon. Bull., Trinidad, 6. 1952, 5—6.

Miller, E. V., and **Heilman, A. S.,** Ascorbic acid and physiological breakdown in the fruits of the pineapple (Ananas comosus L. Merr.). Science, Lancaster, 116. 1952, 505—506.

Montserin, B. G., The cultivation of bananas and plantains. [in Trinidad and Tobago] J. agric. Soc. Trinidad, Tobago 52. 1952, 242—268.

Nafthali, J., (Damage caused by the fruit bat.) [Rousettus aegyptiacus] Hassadeh, Tel-Aviv, 32. 1952, 496—497.

Parrott, A. W., The banana spider (Heteropoda venatoria Linn.) recorded from New Zealand. New Zealand Sci. Rev. 10. 1952, 129—130.

Patel, G. A., and **Kulkarni, H. L.,** Cerciaphis emblica sp. nov. (Fam. Aphididae), a new aphid pest on Emblica officinalis. Curr. Sci., Bangalore, 21. 1952. 350.

Patel, G. A., and **Patel, H. K.,** Control of termites as pests of fruit trees. Proc. zool. Soc. Bengal, Calcutta, 5. 1952, 133—140.

Pontis Videla, R. E., Una podredumbre del cuello de la piña (Ananas comosus (L.) Merr.) en Venezuela, causada por »Phytophthora parasitica« Dastur. Acta cient. venezol. 3. 1952, 63.

Pontis Videla, R. E., y **Rodriguez Landaeta, A.,** El »oidio« o »blanco« de la lechoza (Carica papaya L.) en Venezuela, causado por Oidium caricae Noak. Agron. trop., [Maracay], 2. 1952, 55—57.

Puttarudraiah, M., Blister disease »Kajji« of guava fruits (Psidium guava). [capsid bug Helopeltis antonii] Mysore agric. J., Bangalore, 28. 1952, 8—13, fig.

Richards, A. V., The mango (Mangifera indica L.). Trop. Agriculturist 108. 1952, 121—124.

Richardson, H. H., Ethylene dibromide fumigation of mangoes and almendras infested with Anastrapha fruit flies. J. econ. Ent. 45. 1952, 541—543.

Roy, R. S., A consolidated report of the fruit research scheme, Bihar, from 2nd April 1934 to 31st March 1951. 1952, 56 p.

Roy, R. S., and **Ram, K. B.,** Control of mango hoppers in Bihar. [Idiocerus spp.] Indian J. Hortic. 9. 1952, nr. 1, p. 33—40.

Roy, R. S., and **Sharma, C.,** Diseases and pests of bananas and their control. Indian J. Hortic. 9. 1952, 39—52, 3 fig., 1 tab.

Schmidt, G., Sind mit Bananen eingeführte Spinnen gefährlich? Obst u. Gemüse 4. 1952, 1330—1331.

Singh, B., and **Paharia, K. D.,** Damping-off of papaya (Carica papaya L.) seedlings. [Pythium, Rhizoctonia] Sci. and Cult., Calcutta, 17. 1952, 477—479, 2 fig.

Smith, P. F., and **Scudder jr., G. K.,** Some studies of mineral deficiency symptoms in mango. Proc. Florida State hortic. Soc. 64 (1951). 1952, 243—248.

Stehle, H., Le vanillier et sa culture. III. Maladies insectes et affections diverses du vanillier. Fruits 7. 1952, 253—260.

Steyaert, R. L., La lutte contre la cercosporiose du bananier à la Jamaique. Courrier agric., Paris, 17. 1952, nr. 8, p. 2, 4.

Story, C. G., Pineapple disease in the Mackay district. Cane Growers' Quart. Bull. (Queensl.) 15. 1952, 92—95, 1 fig.

Stover, R. H., Thornton, N. C., and **Dunlap, V. C.,** Changes in the soil flora of banana lands flood fallowed for the eradication of Fusarium oxysporum cubense. Phytopathology 42. 1952, 476.

Tanco Guerra, C., La lucha contra la garrapata: el uso de aparatos, en vez de bañaderos. Bol. Inform. Minist. Ganad., Agric. Uruguay 433. 1952, 12.

Topper, B. F., How to grow pineapples. Jamaica Dept. Agric. Ext. Circ. 49. 1952, 20 p.

Uppal, B. N., Patel, M. K., and **Kamat, M. N.,** Black spots of mango fruits. Indian Phytopath. 5. 1952, 44—46, 3 fig.

Venkatakrishnaiah, N. S., Glomerella psidii (Del.) Sheld. and Pestalotia psidii Pat. associated with a conkerous disease of guava. Proc. indian Acad. Sci (Sect. B) 36. 1952, 129—134.

Viennot-Bourgin, G., À propos d'une altération des fruit d'ananas en Côte d'Ivoire. Fruits 7. 1952, 21—22.

Wallace, G. B., Wilt or Panama disease of banana. [Fusarium oxysporum] East afr. agric. J. 17. 1952, 166—175, 6 fig., 1 tab.

Yokozawa, Y., (Insect visitors on the flowers of Japanese persimmon.) J. hortic. Assoc. Japan 21. 1952, 25—28.

Zentmyer, G. A., Phytophthora cinnamomi on avocado in Mexico and Costa Rica, and other avocado diseases in Mexico. Plant Dis. Reptr. 36. 1952, 31.

Zentmyer, G. A., and **Richards, S. J.,** Pathogenicity of Phytophthora cinnamomi to avocado trees, and the effect of irrigation on disease development. Phytopathology 42. 1952, 35—37, 1 fig.

Brown spot of passion fruit. Malnutrition diseases of plants. [Alternaria passiflorae] Agric. Gaz. New South Wales 63. 1952, 373—376, 6 fig.

California Avocado Society Yearbook, 1950. [Persea floccosa resistant to Phytophthora cinnamomi] ?1950, 224 p.

Control of Panama disease. [Fusarium oxysporum var. cubense on bananas] Agric. Chem., Baltimore, 7. 1952, nr. 4, p. 53.

Les **traitements chimiques** des hampes et la pourriture des régimes de bananes. Fruits d'outre mer, Paris, 7. 1952, 380—384.

l. Tee
Tea — Thé

Das, G. M., Scavenger termites. [secondary pest of tea] Serial Tocklai 94. 1952, 4 p.

De Geus, J. G., Blisterblight-Bestrijding bij, en enkele meer algemene bijzonderheden over de theecultuur op Ceylon in en India. (Blister blight control and other general considerations on tea growing in Ceylon and in India.) Arch. Theecult., Buitenzorg, 18. 1952, 99—113, 6 fig.

De Jong, P., The effect of seed dressings on the rate of germination of tea seed. Planters' Chron. 47. 1952, 177—181.

Gatehouse, R. C., Blister blight control on Dessford Group in 1951. [Exobasidium vexans] Tea Quart. (J. Tea Res. Inst., Ceylon) 23. 1952, 15—18.

Glover, P. M., The weed problem in plantation crops —weeds in tea. Planters' Chron. 47. 1952, 535—539.

Gorrie, R. M., Soil erosion in Ceylon tea. World Crops, London, 4. 1952, 265—267, 277, fig.

Hainsworth, E., Tea pests and diseases and their control. With special reference to North East India. W. Heffer & Sons Ltd., Cambridge 1952. XI + 130 p., 32 fig.

Haworth, F., Minor element nutrition of the tea bush in Ceylon. Tea Quart. (J. Tea Res. Inst., Ceylon) 23. 1952, nr. 3, p. 67—69.

Huysmans, C. P., Bestrijding van blisterblight (Exobasidium vexans) in thee op Sumatra. Bergcultures, Batavia, 21. 1952. 419—425, 427—429, 431—433, 435—437, 439—441, 443—445, 447—449, 451, 453, 455, 457, 459—461, 463—464, 19 fig., 1 tab. georg.

Keegel, E. L., and **Loos, C. A.,** Studies in blister blight control. IX—X. Tea Quart. (J. Tea Res. Inst., Ceylon) 23. 1952, 2—11.

Lamb, J., Crop protection by wet spraying compared with crop protection by dusting in 1951. Tea Quart. (J. Tea Res. Inst., Ceylon) 23. 1952, 12—14.

Landreth, J., A note on an improvement to pneumatic knapsack sprayers. Tea Quart. (J. Tea Res. Inst., Ceylon) 23. 1952, nr. 3, p. 86.

Laoh, J. P., Een beschouwing over de technische en economische mogelijkheden van de motorpoederverstuiving van koperfungiciden met inheemse draagstoffen bij de bestrijding van de blister blight. (A survey of the technical and economic possibilities of power dusting with copper fungicides and local [Indonesian] carriers for the control of blister blight.) Bergcultures, Batavia, 21. 1952, 192—195.

Laoh, J. P., Een beschouwing over de technische moelijkheden en economische aspecten van koperstuifpoeders met inheemse draagstoffen bij de bestrijding der blister blight. (A survey of the technical possibilities and economic aspects of copper dusts with home-produced fillers in the control of blister blight.) [Exobasidium vexans] Arch. Theecult., Buitenzorg, 18. 1952, 35—67, 5 fig.

Loos, C. A., Report of the acting pathologist for the year 1950. [tea diseases] Bull. Tea Res. Inst. Ceylon 32. 1952, 41—45.

Loos, C. A., Studies in blister blight control. X. Evaluation of some copper containing fungicidal dusts in the control of blister disease of tea. XI. Dusting against blister blight on Alupolla Group, Ratnapura. [Exobasidium vexans on tea] Tea Quart. (J. Tea Res. Inst., Ceylon) 23. 1952, 6—11, 1 fig.; 76—80.

Portsmouth, G. B., The control of blister blight disease of tea. 13th int. hortic. Congr., London, (Mimeogr. Pap.) 1952, 6 p.

Portsmouth, G. B., The weed problem on tea estates. [India] Planters' Chron. 47. 1952, 61—63.

Reitsma, J., Een jaar blister blight of Java. [Exobasidium vexans] Arch. Theecult., Buitenzorg, 18. 1952, 5—33, 21 fig.

Schweizer, J., (Cooperation between plantation and nativ growers with regard to the control of blister blight on tea.) Arch. Theecult., Buitenzorg, 18. 1952, 1—4.

Van der Knaap, W. P., Blisterblight-resistentie van theeheesters en theeclonen. [Exobasidium vexans] Arch. Theecult., Buitenzorg, nr. 18. 1952, p. 69—98, 5 fig.

Webster, B. N., Infection chains and acacias. [Exobasidium vexans, Calonectria theae on tea] TeaQuart. (J. Tea Res. Inst., Ceylon) 23. 1952, nr. 3, p. 70—72.

Webster, B. N., A note on pathological matters. Tea Quart. (J. Tea Res. Inst., Ceylon) 23. 1952, nr. 3, p. 84—85.

The **control of Armillaria root disease** in tea. [A. mellea] Planters' Chron. 57. 1952, 571—574.

Proceedings of the ninth annual conference of the Indian Tea Association held at Tocklai Experimental Station on the 3rd, 4th, and 5th December, 1951. [diseases] ? 1952, 82 p., 13 fig.

m. Zuckerrohr
Sugar-cane — Canne à sucre

Abbott, E. V., Sclerospora disease of sugar-cane identified in Louisiana. Sugar Bull., [New Orleans], 30. 1952, 390—391, 399—400, 1 fig.

Abbott, E. V., Stability of strains of the sugar-cane mosaic virus. Proc. Assoc. south. agric. Workers 49. 1952, 142—143. — Phytopathology 42. 1952, 281 (Abstr.).

Abbott, E. V., and **Martin, J. P.,** The sugar-cane disease situation in Peru. [Sclerospora] Plant Dis. Reptr. 36. 1952, 387—388.

Alamo Ibarra, R., Perspectivas para el control permanente del borer de la caña de azúcar (Diatraea), en el continente sudamericano. (Prospects for the permanent control of sugar-cane borer in South America.) Agricultor venezol., Caracas, 17. 1952, nr. 154, p. 12—13, fig.

Azab, Y. E., and **Chilton, S. J. P.,** Studies on inheritance of resistance to red rot disease of sugar-cane. [Physalospora tucumanensis] Phytopathology 42. 1952, 282 (Abstr.).

Azab, Y. E., and **Chilton, S. J. P.,** Transmission of mosaic resistance to progenies in crosses between certain sugar-cane varieties. Proc. Assoc. south. agric. Workers 49. 1952, 143. — Phytopathology 42. 1952, 282 (Abstr.).

Barrera, A., Weeds in the sugar-cane fields of Negros Occidental. J. Soil Sci. Soc. Philippines 4. 1952, 95—100.

Bates, G., Some notes an home-made boom sprays in north Queensland. Cane Growers' Quart. Bull. (Queensl.) 15. 1952, 83—88.

Bates, J., Report on insect pests of sugar-cane. Sugar Bull. (Brit. Guiana Dept. Agric.) 20. 1952, 59.

Bourne, B. A., and **Hundertmark, B. W.,** A note on some effects of chlorophenyl dimethyl urea on sugar-cane, with special reference to flowering. Sugar J., New Orleans, 15. 1952, nr. 7, p. 28, 33, 40, fig.

Box, H. E., The biological control of insect pests of sugar-cane, with special reference to the West Indian region. Proc. agric. Soc. Trinidad, Tobago 52. 1952, 183—185, 187—189, 191—193, 195—197, 199—200.

Box, H. E., Campaña contra el barreno de la caña de azúcar en la América tropical. [Diatraea spp.] Hacienda 47. 1952, nr. 5, p. 43—44.

Box, H. E., Campaña contra los barrenos de la caña de azúcar (Diatraea spp.) en la América tropical. (Campaign against the sugar-cane borer [Diatraea saccharalis] in tropical America.) Turrialba (Costa Rica) 2. 1952, 6—9. — Fazenda, New York, 47. 1952, nr. 8, p. 38—39.

Box, H. E., Investigaciones sobre los taladracores de la caña de azúcar (Diatraea spp.) en Venezuela; el proyecto del combate biológico, informe del progreso durante 1949—1951. Bol. técn. Venezuela Inst. Nac. Agric. 5. 1952, 52.

Briceño, G. C., Más variedades de caña de azúcar. (More varieties of sugar-cane.) [mosaic-resistance] Agricultor venezol., Caracas, 17. 1952, nr. 157, p. 26—27, 2 fig.

Briceño, S. H. R., Control biológico del barreno de la caña de azúcar. Introducción de la »Mosca Cubana«, Lixophaga diatraeae Towns., el en Perú, como agente de control biológico en la lucha contra el gusano perforador de la caña de azúcar, Diatraea saccharalis Fabr. Vida agric., Lima (Perú), 29. 1952, 543—552.

Buzacott, J. H., Varietal changes in the Burdekin district. [sugar-cane] Proc. Queensl. Soc. Sugar-Cane Technol. 1952, 155—159, 1 fig.

Bynum, E. K., Haley, W. E., and **Ingram, J. W.,** Winter survival of the sugar-cane borer [Diatraea saccharalis] in Louisiana and prospects for the 1952 infestation. Sugar Bull., Georgetown, 30. 1952, 181, 186.

Chen, C. B., Wong, S. S., and **Hung, S. S.,** (Tests of the reproduction of the thirteen spotted lady bird beetle [Synonycha grandis Thunberg] and its release for the control of the sugar-cane woolly aphis [Oregma lanigera Zehntner].) J. Sugar-Cane Res., Taiwan, 6. 1952, 217—226.

Chu, H. T., and **Tsai, To-Kun,** Studies on leaf scorch disease of sugar-cane. Part II. Taiwan Sugar Exp. Stat. Rept. 9. 1952, 172—184, 1 fig.

Coleman, R. E., Studies on the keeping quality of sugar-cane damaged by freezing temperatures during the harvesting season 1951—52. Sugar Bull. 30. 1952, 342—343, 377.

Connell, T. D., A survey of bacteria antagonistic to Pythium arrhenomanes in Louisiana sugar-cane soils. Phytopathology 42. 1952, 464.

Connolly, P. J., Warfarin for rat control in cane fields. Sugar 47. 1952, nr. 5, p. 54—55.

Costa, A. S., De Aguirre, J. M., Segalla, A. L., e Alvarez, R., Resistência ao mosaico dos »seedlings« de caña de açúcar obtidos em 1950. (Resistance to mosaic of sugar-cane seedlings obtained in 1950.) Bragantia, Campinas (Brasil), 12. 1952, 285—290, 1 tab.

Dale, W. T., A review of the position with regard to sugar-cane leaf scald in British Guiana. [Xanthomonas albilineans] Trop. Agric., Trinidad, 29. 1952, 9—11, 1 tab. col.

Dugas, A. L., Concienne, E. J., and Sanders, C., Sugar-cane borer (Diatraea saccharalis) outlock for 1952 as determined by overwintering population and mortality survey. Sugar Bull. 30. 1952, 166, 169.

Fors, A. L., Further notes on »Pepe Cuca« cane. Comparisons with Co. varieties. South afr. Sugar J. 36. 1952, 701—713, fig.

Gupta, B. D., A preliminary survey of sugar-cane pests in Uttar Pradesh. Proc. Sugar Technol.'Assoc. India 21. 1952, 148—154.

Gupta, B. D., A resume on trials with DDT, BHC, and some other insecticides against the sugur-cane leafhopper (Pyrilla perpusilla Wlk.) in Uttar Pradesh. Proc. Sugar Technol.'Assoc. India 21. 1952, 144—147.

Gupta, B. D., and Avasthi, P. N., Use of DDT and benzene hexachloride towards the control of sugarcane leafhopper (Pyrilla spp.) in Uttar Pradesh. Plant Prot. Overseas Rev., London, 3. 1952, nr. 1, p. 4—12.

Hsia, Y. J., Chuan, L. T., and Wang, C. S., An appraisal of N. Co. 310 cane. Results of extensive tests on Taiwan. [Ceratostomella paradoxa, Corticium sasakii, Sclerotium rolfsii, Cytospora sacchari] South afr. Sugar J. 36. 1952, 287, 289, 291, 293, 295, 297, 299, 301, 349, 351, 353, 355, 435, 437, 439, 441, 443, 18 fig.

Hughes, C. G., Diseases of cane in New Guinea. Cane Growers' Quart. Bull. (Queensl.) 16. 1952, 39—42.

Jepson, W. F., Stalk borers of tropical cereals and sugarcane. Trans. IXth int. Congr. Ent., Amsterdam, 1 (1951). 1952, 786—790.

Johnson, L. F., Recontamination of sterilized soil with relation to Pythium root rot of sugar-cane and corn. Phytopathology 42. 1952, 12—13 (Abstr.).

Johnson, L. F., and Wheeler, H. E., The effect of actinomycetes antibiotic to Phythium arrhenomanes in plate cultures on root rot of sugar-cane and corn. Phytopathology 42. 1952, 284 (Abstr.).

Ju, L. S., (A survey of distribution and infestation of sugar-cane leaf miner (Coleophora). J. Sugar-Cane Res., Taiwan, 6. 1952, 51—62.

Junqueira, G. M., (Biological control of the sugar-cane borer (Diatraea saccharalis).) Seleç. agríc. (Brasil) 7. 1952, nr. 70, p. 15—16.

King, N. C., Chlorotic streak in Natal cane. Warning against possible infection. South afr. Sugar J. 36. 1952, 423, 1 fig.

King, N. J., The control of cane disease. [Queensland] Producers' Rev., Perth (West. Austr.), 42. 1952, nr. 6, p. 39—40.

King, N. J., The end of downy mildew disease ? Cane Growers' Quart. Bull. (Queensl.) 16. 1952, 62.

King, N. J., Factors affecting the germination of the sugar-cane plant. Proc. Queensl. Soc. Sugar-Cane Technologists. 1952, 133—141.

King, N. J., The overall disease position. Cane Growers' Quart. Bull. (Queensl.) 16. 1952, 60—62.

Lin, Jen-Tu, The relation between cane varieties and leaf scorch. Part I. The degree of susceptibility of various cane varieties. Taiwan Sugar Exp. Stat. Rept. 9. 1952, 185—199.

Ling, K. C., (Studies on leaf scorch of sugar-cane. 1. Distribution of leaf scorch disease in Taiwan.) [Stagonospora sacchari] J. Sugar-Cane Res., Taiwan, 6. 1952, 125—145.

Ling, K. C., and Ma, P. T., (Studies on new improved granosan. III. Effect on the fungi which caused sugarcane diseases.) J. Sugar-Cane Res., Taiwan, 6. 1952, 63—88.

Lo, T. T., (Black rot of sugar-cane.) [Ceratostomella adiposum] J. Sugar-Cane Res., Taiwan, 6. 1952, 11—16.

Lo, T. T., (The sugar-cane mosaic in Taiwan.) J. Sugar-Cane Res., Taiwan, 6. 1952, 1—9.

Long, B. E., Progreso en la industria azucarera de Cuba, Florida, Louisiana, Hawaii y Mexico. IV. Acta agron. (Colombia) 2. 1952, 49—52.

Lugo-López, M. A., and Grant, R., Pre-harvest foliage sprays of sugar-cane with 2, 4-D. Puerto Rico Univ. J. Agric. 36. 1952, 187—193.

Luke, H. H., Fungi antagonistic to Pythium arrhenomanes isolated from Louisiana sugar-cane soils. [Penicillium spp., Aspergillus spp., Spicaria spp.] Phytopathology 42. 1952, 286 (Abstr.).

Luke, H. H., Fungi isolated from sugar-cane soils of Louisiana and their antagonistic effect on Pythium arrhenomanes. Phytopathology 42. 1952, 469.

McDougall, W. A., A note on pot experiments with »gammexane« (benzene hexachloride) in soil. Queensland J. agric. Sci. 9. 1952, 41—45.

McM[artin], A., Experiment station notes. Plant food investigations: smut inspection results. [Ustilago scitaminea] South afr. Sugar J. 36. 1952, 311.

Martin, F., La dégénérescence de la canne à sucre. Ind. aliment., agric., Paris, 69. 1952, 15—19.

Martin, J. P., La enfermedad »Sclerospora« de la caña de azúcar en el Perú. Vida agric., Lima (Perú), 29. 1952, 773, 775, 777, 779, 781, 783—784.

Mattos Sierra, R. A., El »carbon« de la caña de azúcar en la Provincia de Corrientes. [Ustilago] Arch. fitotécn. Uruguay, Montevideo, 2. 1952, 3—5.

Mungomery, R. W., The division of entomology and pathology. Queensland Bur. Sugar Exp. Stat. Rept. 52. ? 1952, 39—46, 1 tab.

Mungomery, R. W., Maryborough-bauple district quarantine against chlorotic streak disease. [Ceratostomella paradoxa] Cane Growers' Quart. Bull. (Queensl.) 15. 1952, 89—90.

Mungomery, R. W., Ratoon stunting disease. Ann. Rept. Bur. Sugar Exp. Stats., Brisbane, 1951/52. 1952, 43.

Narayanan, E. S., and **Venkatraman, T. V.,** Technique of mass multiplication of Stenobracon deesae (Cam.) Hymenoptera: Braconidae for use against sugar-cane and maize borers. Proc. indian Acad. Sci. (Sect. B) 36. 1952, 12—18.

Navarro, J. A., Use of herbicides at the sugar-cane plantations in Puerto Rico. Sugar J., New Orleans, 14. 1952, nr. 12, p. 38—39.

Navarro, J. A., Uso de hierbicidas en las plantaciones de caña de Puerto Rico. Rev. Café, Puerto Rico, 7 (1951). 1952, nr. 6/7, p. 24—25.

Pardo Miro Quesada, C., Una nueva enfermedad de la caña de azúcar; ensayo de diagnóstico. Vida agric., Lima (Perú), 29. 1952, nr. 338, p. 25, 27—28.

Rao, G. N., Schizotetranychus andropogoni Hirst, a pest of sugar-cane. Curr. Sci., Bangalore, 21. 1952, 163—164.

Revilla M., V. A., Algunos resultados de las investigaciones sobre la nueva enfermedad de la caña de azúcar en el país. (Some results of the investigations on the new disease of sugar-cane in the country.) Inform. Cent. Invest. agríc., Lima, 76. 1952, 8 p., 3 fig., 1 tab. geogr.

Revilla M., V. A., Nueva enfermedad de la caña de azúcar. [Marmor sacchari] Vida agric., Lima (Perú), 29. 1952, 475, 477—478.

Revilla M., V. A., Sobre la nueva enfermedad [Sclerospora sacchari] de la caña de azúcar. Vida agric., Lima (Perú), 29. 1952, 765, 767, 769—770.

Reyes, M. G., Mosaic, threat to Philippine sugar industry. Agric. Wk. 1. 1952, nr. 4, p. 5.

Riollano, A., Enfermedades, insectos y yerbajos. Caña y Azúcar (Puerto Rico) 1. 1952, nr. 2, p. 21—23.

Risco Briceno, S. H., Control biológico del barr no de la caña de azúcar (Diatraea saccharalis). [Lixophaga diatraeae as control agent] Vida agric., Lima (Perú), 29. 1952, 543, 545, 547, 549—550, 552.

Robertson, J. S., »Leaf scald« investigation. Sugar Bull. (Brit. Guiana Dept. Agric.) 20. 1952, 53—58.

Sarasola, A. A., y **Garese, P.,** Tratamiento de la semilla de remolacha azucarera contra Pythium ultimum, con altas concentraciones de sulfato de cobre. IDIA (Inform. Invest. agríc.), Buenos Aires, 5. 1952, nr. 54, p. 47.

Scaramuzza, L. C., La »mosca cubana« (Lixophaga diatraeae) en el control biológico del barreno de la caña de azúcar (Diatraea saccharalis). Vida agric., Lima (Perú), 29. 1952, 479, 483—484.

Sharma, S. L., Pathogenicity of Puccinia kuehnii (Krueg.) Butler on sugar-cane in Bihar. Curr. Sci., Bangalore, 21. 1952, 288.

Sierra, R. A. M., El »carbon« de la caña de azúcar en la provincia de Corrientes. (Carbon disease of sugar-cane in the province of Corrientes [Uruguay].) [Ustilago sacchari, U. scitaminea] Arch. fitotécn. Uruguay, Montevideo, 5. 1952, nr. 1, p. 3—5.

Smith, E. A., Weed control at Onomea. Hawaii. Sugar Technol. Rept. 1952, 15—17.

Smith, N. M., Chlorotic streak disease in the Maryborough area. Cane Growers' Quart. Bull. (Queensl.) 15. 1952, 90—92.

Smith, N. M., Some observations on frost injury to sugar-cane — Nambour area. Cane Growers' Quart. Bull. (Queensl.) 56. 1952, 25—33. — Proc. Queensland Soc. Sugar-Cane Technol. 19. 1952, 123—132.

Traversi, B. A., Virus de la remolacha azucarera. [mosaic, curly top, yellow wilt] IDIA (Inform. Invest. agríc.), Buenos Aires, 5. 1952, nr. 57, p. 17—18.

Tsai, To-Kun, Studies on leaf scorch disease of sugar-cane. Part I. [Stagonospora sacchari] Taiwan Sugar Exp. Stat. Rept. 8. 1952, 133—149, 8 fig; 9. 1952, 172—184, 1 fig.

Williams, J. R., Pests of sugar-cane. Mauritius Dept. Agric. Ann. Rept. 1951. 1952, 59—60.

Wilson, G., Benzene hexachloride for cane grub control. Proc. Queensland Soc. Sugar-Cane Technol. 19. 1952, 147—153.

Wismer, C. A., Controlling pineapple disease [Ceratostomella paradoxa] of sugar-cane. Proc. hawaii. Acad. Sci. 27. 1952, 4 (Abstr.).

Disease survey in Natal cane. South afr. Sugar J. 36. 1952, 143, 145.

Diseases. Hawaii. Sugar Exp. Stat. Rept. 1952, 24—28, 4 fig.

Performance of varieties in contributing colonies. Brit. West Indies Sugar-Cane Breed. Stat. Rept. 1952, 31—35.

Sugar-cane research in Mauritius during 1950. Rev. agric. Maurice 31. 1952, 83—103.

Twenty-second annual report of the Sugar-Cane Research Station, Mauritius, 1951. 1952, 37 p.

n. Varia

(Eucalyptus: III 10 i = p. 286.)

Banerji, A., and **Dutt, D. K.,** Cleoporus lefevrei Duviv. — a new pest of jute (Corchorus olitorius), and its control. Sci. and Cult., Calcutta, 17. 1952, 443—444.

Barat, H., Étude sur le dépérissement des poivrières en Indochine. [Piper] Arch. Rech. agron. Cambodge, Laos, Vietnam 13. 1952, 92 p., 14 fig., 13 tab.

Bertrand, G., À propos de la lutte contre la décadence des cultures de poivrier en Indochine et en Extrême-Orient. Compt. rend. Acad. Sci., Paris, 235. 1952, 1262—1263.

Bridwell, J. C., A new genus (Bonaereus) of Bruchidae affecting Hibiscus in Argentina (Bruchinae: Acanthoscelidini). J. Washington Acad. Sci. 42. 1952, 42—49.

Castellani, E., Un seccume fogliare del Coix lacryma-jobi L. (A leaf withering of Coix lacryma-jobi L.) [Helminthosporium sudanense] Riv. Agric. subtrop., trop., Firenze, 46. 1952, 159—165, 2 fig.

Chakravarti, B. P., Wilt of arhar (Cajanus cajan) in Bihar; causal organism — Fusarium udum Butl. Bihar agric. Coll. Mag. (India) 3. 1952, 9—10.

Chevalier, A., Les mesures à prendre pour réagir contre la décadence de la culture du poivrier en Indochine (au Cambodge et dans la Cochinchine austro-occidentale). Compt. rend. Acad. Sci., Paris, 235. 1952, 993—995.

Diehl, W. W., Powdery mildew of kenaf in Florida. [Phyllactinia and Leveillula on Hibiscus cannabinus L.] Plant Dis. Reptr. 36. 1952, 52.

Doepel, R. F., Charcoal rot of sorghum and crown rot of jute at Ord River, W. A. [Sclerotium bataticola] Austr. Plant Dis. Recorder 4. 1952, 24—25.

Dutt, N., Nupserha bicolor Thoms., subsp. postbrunnea Breun.: a new pest on jute (Corchorus olitorius Linn.). Nature, London, 170. 1952, 287—288.

Dutt, N., On the forecasting of epidemic outbreaks of the major insect pests of jute. Proc. zool. Soc. Bengal, Calcutta, 5. 1952, 71—81.

Dutt, N., Pinnaspis sp. — new coccid pest on Corchorus capsularis Linn. (jute). Curr. Sci., Bangalore, 21. 1952, 73—74.

Franssen, C. J. H., De levenswijze, oecologie en bestrijding van de kapok-topboorder (Alcides leeuweni Hell.). (The life history and control of the kapok topborer.) Pemb. Balai Besar Penj. Pert. (Contrib. gen. agric. Res. Stat.), Bogor, nr. 132. 1952, 36 p., 7 fig.

González Mendoza, R., Especialización de los nematodos de la raices de cafeto, guamo (inga) y platano. (Specialization in the root nematodes of coffee, inga, and banana.) Bol. Inform. Colombia 1952, no. 29, p. 34—37.

Guillemat, J., Le »chancre de la tige« d'Urena lobata. [Stagonospora urenae] Coton, Fibres trop., Paris, 7. 1952, nr. 1, p. 137—146.

Hadiwidjaja, T., De krul- of heksenbezemziekte van Crotalaria. (Witsches' broom of Crotalaria.) Tijdschr. Plantenziekten 58. 1952, 1—4, 3 fig.

Haenseler, C. M., Botrytis on kenaf in New Jersey. [Botrytis hortensis on Hibiscus cannabinus L.] Plant Dis. Reptr. 36. 1952, 336.

Hingorani, M. K., and **Mehta, P. P.,** Bacterial leaf spot of pomegranate. [Punica granatum] Indian Phytopath. 5. 1952, 55—56, 2 fig.

Kobayasi, Y., On the genus Favolaschia and Campanella from Japan. [on bamboo culms] J. Hattori bot. Lab. (Japan) nr. 8. 1952, 1—4, 3 fig.

Kulkarni, Y. S., Patel, M. K., and **Abhyankar, S. G.,** A new bacterial leaf-spot and stem canker of pigeon pea. [Cajanus indicus] Indian Phytopath. 5. 1952, 21—22, 1 fig.

Kulkarni, Y. S., Patel, M. K., and **Dhande, G. W.,** Bacterial leaf-spot of Cassia tora L. Indian Phytopath. 5. 1952, 76—86, 4 fig.

Mahmud, K. A., Review of literature on Phytophthora foot-rot of pan (Piper betle L.). Bull. bot. Soc. Bengal, Calcutta, 6. 1952, nr. 2, p. 79—88.

Marikowskij, P. I., (Die Tamariskenmotte Amblypalpis tamaricella Dan. und die Diapause ihres Parasiten.) Zool. Žh. (Zool. J.) 31. 1952, 673—675.

Mehrotra, B. S., Fusarium roseum Link and Sclerotium rolfsii Sacc. on ginger rhizomes. Indian Phytopath. 5. 1952, 52—54, 2 fig.

Mehta, P. R., Singh, B., and **Mathur, S. C.,** A new leaf spot disease of bajra (Pennisetum typhoides Stape and Hubbard) caused by a species of Piricularia. Indian Phytopath. 5. 1952, 140—143, 3 fig.

Monbet, J., Les gales des ovin et des caprins en haute montagne. Terre maroc. 26. 1952, 57—58.

Nickell, L. G., A species of Ganoderma probably pathogenic to Sassafras in New York. Plant Dis. Reptr. 36. 1952, 28—29, 1 fig.

Nutman, F. J., and **Roberts, F. M.,** Acute die-back of clove trees in the Zanzibar protectorate. (Cryptosporella eugeniae] Ann. appl. Biol. 39. 1952, 599—608, 2 tab.

Patel, M. K., Kulkarni, Y. S., and **Dhande, G. W.,** Two new bacterial diseases of plants. [Xanthomonas clerodendroni on Clerodendron phlomoidis, X. sesbaniae on Sesbania ägyptiaca] Curr. Sci., Bangalore, 21. 1952, 74—75.

Peregontschenko, B. M., (Pomegranate leaf-roller and Phomopsis) Sad i Ogorod (Orchard and Garden) 10. 1952, 75.

Petrak, F., Über zwei hysterioide Askomyzeten auf Smilax. Sydowia, Ann. mycol., 6. 1952, 290—292.

Prasad, N., and **Desai, M. V.,** Fusarium blight of cluster beans. Curr. Sci., Bangalore, 21. 1952, 17—18.

Presley, J. T., Colletotrichum tip blight of kenaf: a brief history of the disease. [Colletotrichum hibisci on Hibiscus cannabinus] Plant Dis. Reptr. 36. 1952, 333—334, 1 fig.

Rozhkow, W. S., (Pomegranate leaf roller and measures for controlling it.) Sad i Ogorod (Orchard and Garden) 1. 1952, 52.

Rusanow, F. N., (Culture of certain parasitic plants in the Tashkent Botanical Garden.) [Cynomorium songaricum, Cistanche flava on Tamarix] Bull. Glav. Bot. Sad., Moskwa, 11. 1952, 84—85.

Sanford, H., Pepper in Sarawak. [pests and diseases of Piper nigrum] Malayan agric. J. 35. 1952, 208—214, 3 tab. col.

Sheffield, F. M. L., Studies of the clove tree. IV. Natural grafting and its bearing on sudden-death disease. Ann. appl. Biol. 39. 1952, 103—110, 2 tab.

Srinivasan, K. V., Seedling blight of Sesbania grandiflora Pers. [Colletotrichum capsici] Curr. Sci., Bangalore, 21. 1952, 318.

Srivastava, R. K., Abnormal leaves of Cycas revoluta Thunb. Curr. Sci., Bangalore, 21. 1952, 140—141.

Stoner, W. N., A fungicidal control for powdery mildew, Leveillula taurica (Lév.) Arn., of kenaf, Hibiscus cannabinus L. in South Florida. Plant Dis. Reptr. 36. 1952, 302—303.

Sundaram, N. V., New host for Xanthomonas malvacearum (Smith) Dowson. [Jatropha curcas] Curr. Sci., Bangalore, 21. 1952, 320.

Suryanarayana, D., Infection caused by the oospores of Sclerospora graminicola (Sacc.) Schroet. on Pennisetum typhoides Stapf and Hubbard. Indian Phytopath. 5. 1952, 66—75, 4 tab.

Tarjan, A. C., Awl nematode injury on Chinese waterchestnuts. [Dolichodorus heterocephalus on Eleocharis dulcia] Phytopathology 42. 1952, 114 (Abstr.).

Trivedi, B. S., and **Nigam, P. N.,** Some abnormal flowers of Bauhinia acuminata Linn. Sci. and Cult., Calcutta, 17. 1952, 438—439.

Venkatakrishnaiah, N. S., Blight of Amaranthus paniculatus L. caused by Alternaria. Phytopathology 42. 1952, 668—669, 1 fig.

Venkataramani, K. S., A preliminary study of some inter-varietal crosses and bybrid vigour in Hibiscus esculentus L. J. Madras Univ. (Sect. B) 22. 1952, 183—200.

Viennot-Bourgin, G., Les rouilles du Strophantus sarmentosus en Afrique occidentale et équatoriale française. Rev. int. Bot. appl., Agric. trop., Paris, 32. 1952, nr. 351—352, p. 2—14, 3 fig.

Wallace, M. M., and **Diekmahns, E. C.,** Bole rot of sisal. East afr. agric. J. 18. 1952, 24—29.

Watanabe, B., Enzymes of ramie white root rot fungus Rosellinia necatrix (Hart.) Berl. Kyushu Noji Shikenjo 9. 1952, 5—6.

Watanabe, T., (Studies on the leaf blight disease of the jute.) Helminthosporium corchori] Bull. Utsunomiya Univ. Coll. Agric. (Japan) 1. 1952, 319—333.

Wiehe, P. O., The spread of Armillaria mellea (Fr.) Quél. in tung orchards. East afr. agric. J. 18. 1952, nr. 2, p. 67—72, 5 fig.

Diseases. [Macrophomina phaseoli on jute] Indian Jute Comm. Rept. 1950—1951. 1952, 61—67.

Le **kapockier.** Culture et sélection. Compt. rend. Rech. agron. Madagascar 1952, nr. 1, p. 68—74, 1 fig.

11. Vorratsschutz
Storage protection — Protection des stocks

a. Allgemeiner Teil
General part — Partie générale

Beirne, B. P., Insects found in foodstuffs and stored products in Ireland. Entomologist's Gaz., London, 3. 1952, 81—84.

Bentz, R. W., O'Grady, T. J., and **Wright, S. B.,** Antioxidants and food preservation. Food Technol., London, 6. 1952, 302—304.

Berg, H., Schädlinge in feuchten Kellerräumen. Saarl. Bauernbl. 6. 1952, 108.

Bollow, H., Abwehr und Bekämpfung der Nahrungsmittelschädlinge des Haushaltes. Pflanzenschutz, München, 4. 1952, 86—89, 3 Abb.

Bollow, H., Die Nahrungsmittelschädlinge im Haushalt. Pflanzenschutz, München, 4. 1952, 55—64, 34 Abb. — Landesanst. Pfl.bau, Pfl.schutz, München, Merkbl. Nr. 43. 1952, 12 S., 38 Abb.

Call, F., Application of fumigants to ships and warehouses. VIII. Distribution of fumigants in chambers fumigated with ethylene oxide and carbon dioxide. J. Sci. Food, Agric. 3. 1952, 212—218, 4 fig.

Cantrell, O., Down with household insects! Progr. Farmer (Texas Ed.) 67. 1952, nr. 4, p. 176.

Coleman, F. B., and **Peel, A. C.,** Storage of seeds. Queensland agric. J. 74. 1952, 265—276.

Costa, R. G., (Disinfestation and protection of stored products.) Rev. Agron., Porto Alegre, 16. 1952, 101—106.

Cotton, R. T., Fumigating stored foodstuffs. US Dept. Agric. Yearb. Agric. 1952, 345—349.

Courtenay, V. D., Good housekeeping in food factories. Food, London, 1952, nr. 254, p. 424—427.

DeLong, D. M., and **Boush, G. M.,** Is the housefly being replaced by other Diptera as the major insect pest of food markets? Ohio J. Sci. 52. 1952, 217—218.

Dingler, M., Der gefährliche Museumskäfer. [Anthrenus museorum] Orion 7. 1952, 192—193.

Dobie, N. D., and **Young, R. A.,** Use of chloropicrin in steam for disinfesting storage houses. Phytopathology 42. 1952, 513 (Abstr.).

Dodds, S. E., and **Ewer, D. W.,** Effect of desiccation on the humidity response of Tenebrio. Nature, London, 170. 1952, 758, 1 fig.

Drees, H., Vorratsschutz, eine Aufgabe des Pflanzenschutzes. In: Vorratsschutz (Verl. Kommentator, GmbH, Frankfurt/M. 1952), S. 5—6.

Easter, S. S., Application of research to storage of food. Trans. IXth int. Congr. Ent., Amsterdam, 1 (1951). 1952, 821—822.

Edmunds, I. R., The oviposition of Prosevania punctata (Brulle): a hymenopterous parasite of cockroach egg capsules. Ohio J. Sci. 52. 1952, 29—30.

Efremowa, N. I., and **Chochlow, D. N.,** (Green oil as a solvent of synthetic insecticides in the aerosol method of controlling storage pests.) Dokl. Vsesoiuzn. Akad. Sel'skohoz. Nauk im. V. I. Lenina (Proc. Lenin Acad. agric. Sci.) 17. 1952, nr. 7, p. 37—39.

Emery, G. A., The control of pests of stored farm produce. [farm-stored grain and other feeding stuffs] Essex Farmers' J. 31. 1952, nr. 8, p. 37, 39.

Esch, F., Vorratsschutz in der Speisekammer. In: Vorratsschutz (Verl. Kommentator, GmbH, Frankfurt/M. 1952), S. 8—12, 6 Abb.

Fabian, Begriffsmerkmale für Schädlingsbefall. Mühle 89. 1952, 277—278.

Ferguson, G. R., Industrial uses of insecticides in fabric pest control. Proc. Mid-Year Meetg. Chem. Spec. Mfr. Assoc. Off. 38. 1952, 91—93.

Franz, E., Milbenplage in Frankfurter Neubauten. Natur u. Volk 82. 1952, 300—301, 1 Abb.

Freeman, J. A., Damage and loss to stored products from attack by insects and mites. Trans. IXth int. Congr. Ent., Amsterdam, 1 (1951). 1952, 823—828.

Freeman, J. A., The inter-relation of insect attack on stored food and on wood. Trans. IXth int. Congr. Ent., Amsterdam, 1 (1951). 1952, 719—722, 1 fig.

Frey, W., Halt! Vorratsschutz im bäuerlichen Haushalt. Biol. Bundesanst. Braunschweig Merkbl. Nr. 8. 1952, 6 S., 11 Abb.

Froeschner, R. C., Battle those backyard bugs! Household 52. 1952, nr. 7, p. 16—17.

Haltmeier, Probleme der Vorratshaltung und Schädlingsbekämpfung. Mühle 89. 1952, 776—777.

Haltmeier, Der ständige Ausschuß für Vorratshaltung und Schädlingsbekämpfung. Mühle 89. 1952, 328—329.

Hanke, M. L., Die Aufgaben des bäuerlichen Vorratsschutzes. Landw. Ztschr. Nord-Rheinprov. 119. 1952, 484, 2 Abb.

Hassett, Ch. C., and **Jenkins, D. W.,** Use of fission products for insect control. Nucleonics, New York, 10. 1952, 42—46, 5 fig., 2 tab.

Hayhurst, H., Infestation of stored products. Mem., Proc. Manchester Lit., philos. Soc. 93. 1952, 5—14.

Henderson, L. S., Household insects. US Dept. Agric. Yearb. Agric. 1952, 469—475, 3 fig.

Herford, G. V. B., The infestation of stored foodstuffs by insects. J. Sci. Food, Agric., London, 3. 1952, 1—11, 6 fig., 3 tab.

Hewlett, P. S., Piperonyl butoxide as a constituent of heavy-oil sprays for the control of stored product insects. II. The effect of piperonyl butoxide on the toxicities of allethrin, DDT, and BHC, and on the joint toxicity of BHC and pyrethrins, to Tribolium castaneum. Bull. ent. Res. 43. 1952, 21—32.

Howe, R. W., and **Burges, H. D.,** Studies on beetles of the family Ptinidae. VII. The biology of five ptinid species found in stored products. Bull. ent. Res. 43. 1952, 153—186, 6 fig., 2 tab.

Howell, D. E., Museum insect pest control with newer insecticides. Proc. Oklahoma Acad. Sci. 32. 1952, 31—33.

Incho, E. J., Ratios of piperonyl butoxide and pyrethrins for German cockroach (Blatella germanica) control. Soap, sanit. Chem. 28. 1952, nr. 2, p. 142—143.

Iyer, V., and **Bhat, J. V.,** The resistance of certain dominant bacilli to food preservatives. J. sci., ind. Res., Delhi, 11. 1952, 480—481.

Joslyn, M. A., and **Diehl, H. C.,** Physiological aspects of low temperature preservation of plant products. Ann. Rev. Plant Physiol., Palo Alfo, 3. 1952, 149—170.

Kaljbergenow, G. K., (Aerosols in the control of storage pests.) Sowjetsk. Agron., Moskwa, 10. 1952, nr. 6, p. 68—71.

Kono, T., (On the relative resistance of several species of insect pest of stored products to the gaseous γ-BHC.) Botyu Kagaku (Sci. Insect Control) 17. 1952, 153—156.

Kraska, E. J., How to prevent damage to canned foods. Canner, Chicago, 114. 1952, nr. 19, p. 10—12.

Kristensen, H. R., (Mosaic disease of stock.) Gartnertidende, København, 68. 1952, 194—195.

Kuitert, L. C., Control of home insect pests: how to fight roaches, ants, mosquitoes, moths and fleas. Florida Grower 60. 1952, nr. 7, p. 38.

Latta, R., Research in the Division of Stored Product Insect Investigations relative to the use of insecticides. Proc. chem. Specialt. Manufact. Assoc. 39. 1952, 103—104.

Lederer, G., Ein Beitrag zur Ökologie der amerikanischen Schabe Periplaneta americana (Linné 1758) Anz. Schädl.kunde 25. 1952, 102—104.

Le Goupils, P., La désinsectisation dans les ports. Chim. et Ind., Paris, 67. 1952, 119—124.

Lepigre, A. L., Phytopharmacie et stockage des denrées. Phytoma, Paris, 5. 1952, nr. 40, p. 45—47, 5 fig.

McCauley, W. E., How insecticide controls affect the manufacturer. Proc. amer. Assoc. econ. Entomologists, North Centr. States Br., 7. 1952, 7—12.

Mehl, S., Ratten und Hausmäuse als Vorratsschädlinge. In: Vorratsschutz (Verlag Kommentator, GmbH, Frankfurt/M. 1952), S. 35—38.

Meyer, W., Bekämpfung von Kellerasseln. Zentralbl. dtsch. Erwerbsgartenbau 4. 1952, Nr. 48, S. 3.

Miller, A. C., Mallis, A., and Sharpless, R. V., Aerosol insecticides — their evaluation against house flies, cockroaches. I., II. Soap, sanit. Chem. 28. 1952, nr. 2, p. 151, 153, 181; nr. 3, p. 143, 145, 147, 149.

Monro, H. A. U., Cunningham, C. R., and King, J. E., Hydrogen cyanide and methyl bromide as fumigants for insect control in empty cargo ships. Sci. Agric., Ottawa, 32. 1952, 241—265, 2 fig.

Munro, J. A., e Hinojosa, R., Control de insectos caseros. Bolivia Serv. agric. interamer. Circ. Ext. 1. 1952, 16 p.

Nikiforow, A., (Aerosol method of controlling injurious insects.) [in storage and on livestock] Kolkhoz. Proizvodstvo (Collect. Farm Prod.) 12. 1952, nr. 9, p. 57.

Parks, T. H., Injurious household pests and their control. Ohio agric. Coll. Ext. Serv. Bull. SB-3. 1952, 37 p.

Petzsch, H., Syrischer Goldhamster (Mesocricetus auratus Waterhouse) als Vorratsschädling. Nachr.bl. dtsch. Pfl.schutzd., Berlin, NF. 6. 1952, 133.

Price, M. D., New developments in pest control. [new insecticides in the food industry] Food, London, 21. 1952, 428—430.

Richter, H., Die Aufgaben der Biologischen Bundesanstalt im Vorratsschutz. In: Vorratsschutz (Verl. Kommentator, GmbH, Frankfurt/M. 1952), S. 6—7.

Salles, C., Le froid et les denrées périssables. Rev. prat. Froid, Paris, 7. 1952, nr. 10, p. 35—37.

Schmitt, J. B., Cockroaches and their control. New Jersey agric. Exp. Stat. Circ. nr. 546. 1952, 7 p.

Steel, W. O., and Howe, R. W., A new species of Laemophloeus (Col: Cucujidae) associated with stored products. Proc. R. ent. Soc. London (B) 21. 1952, nr. 5—6, p. 86—88, 2 fig.

Summer, W., Biological control in the food industry. Food, London, 21. 1952, 84—86, 130—133.

Sy, M., Über die Verlängerung der Wirksamkeitsdauer von Gamma-Hexachlorcyclohexan speziell bei Verwendung als Aerosol zur Bekämpfung von Vorratsschädlingen. Trans. IXth int. Congr. Ent., Amsterdam, 1 (1951). 1952, 865—874, 10 Abb.

Van Rensburg, R., Common house pests. [insects] Woman and her Home (South Afr.) 4. 1952, 165—168.

Vollmann, M., Der Speckkäfer (Dermestes lardarius). Landw. Wochenbl. Westf., Lippe 109A. 1952, 734—735.

Walder, W. O., Antibiotics and food. Food, London, 21. 1952, 142—145.

Walker, C. L., How to get rid of household insect pests. Reader's Digest 60. 1952, nr. 360, p. 109—112.

Walter, L., Recent developments in automatic control of food processing. Food Ind. South Afr. 4. 1952, nr. 10, p. 42—45.

Weaver, C. R., Entomological problems in forage crop production. Ohio State Univ. Abstr. Doct. Diss. 63. 1952. 389—391.

Weidner, H., Die Insekten der »Kulturwüste«. (Vorarbeiten zu einer Ökologie der Großstadt.) Mitt. Hamburg. zool. Mus., Inst. 51. 1952, 89—173.

Zacher, F., Die Bekämpfung der Vorratsschädlinge durch Hitze, insbesondere Hochfrequenzwärme. Trans. IXth int. Congr. Ent., Amsterdam, 1 (1951). 1952, 861—864.

Zacher, F., Die Bekämpfung der Vorratsschädlinge durch oberflächenaktive Pulver. Trans. IXth int. Congr. Ent., Amsterdam, 1 (1951). 1952, 1014—1022.

Zacher, F., Chemische Mittel im Vorratsschutz. (Vortragsabend des Arbeitskreises Berlin der GDCh.-Fachgruppe Lebensmittelchemie am 27. Mai 1952.) (Ref. von G. Dultz.) Ztschr. Lebensmittel-Untersuch., -Forsch. 95. 1952, 446.

Zacher, F., Vorratsschutz in Handel und Industrie. Schädlingsbekämpfung 44. 1952, 83—87.

Bemerkungen zur 2. Tagung des »Ständigen Ausschusses für Vorratshaltung und Schädlingsbekämpfung« am 9. und 10. April 1952. Mühle 89. 1952, 225—226.

Four new forage crops. Seed World 70. 1952, nr. 3, p. 36, 38, 40, 3 tab. geogr.

Insect infestation of stored food products in Nigeria. Report of a survey, 1948—50, and of control measures adopted. Colon. Res. Publ. (H. M. S. O., London) nr. 12. 1952, 40 p., 7 fig., 4 tab.

600 000 t Nahrungsmittel durch Vorratsschutz zu erhalten. AID-Kurznachrichten 3. 1954, Nr. 51, S. 1.

Vorratsschutz. (Herausgegeben vom Bundesministerium für Ernährung, Landwirtschaft und Forsten.) Kommentator GmbH, Frankfurt/M. 1952, 40 S., 16 Abb. (S.-H. zu Gesunde Pflanzen.)

b. Kartoffeln und Rüben
Potatoes and beets
Pommes de terre et betteraves

Appel, G. O., Sachgemäßes Einmieten schützt vor Verlusten. Dtsch. Landw. 3. 1952, 512—515, 5 Abb.

Becker, A., Zur Aufbewahrung von Winterkartoffeln. Landw. Ztschr. Nord-Rheinprov. 119. 1952, 1168, 1 Abb.

Bowman, F., and **Hanning, F.,** A study of blackening and fluorescence in potatoes. (Untersuchung über das Schwarzwerden und die Fluoreszenz bei Kartoffeln.) Food Res., Champaign (Illinois), 16. 1951, 462—468.

Burton, W. G., Heat production and ventilation of potatoes bulk stored in farm buildings. Agriculture, J. Minist. Agric., London, 59. 1952, 280—283.

Davis, G., Mechanical injuries to potatoes. Proc. Oregon Seed Growers League 11. 1952, 109.

Davis, G. B., Quality losses to Oregon late crop potatoes in handling operations at shipping point. Oregon agric. Exp. Stat. Bull. 526. 1952, 18 p.

Dettweiler, Ch., Keimhemmungsmittel und Physiologie der Kartoffelknolle. Mitt. Biol. Zentralsanst. H. 74. 1952, 90—92.

Dettweiler, Ch., Zusammenhänge zwischen Austreiben und Atmung bei der Kartoffelknolle. I. Mitteilung. Die Hemmung des Austreibens durch Fermentinhibitoren, insbesondere Urethane. Planta 41. 1952, 214—239, 6 Abb.

Downie, W. A., Maintenance of quality in stored table potatoes. J. Dept. Agric. Victoria 50. 1952, 61—66, 76.

Ellison, J. H., and **Jacob, W. C.,** Internal browning of potatoes as affected by date of planting and storage. Amer. Potato J. 29. 1952, 241—252, 5 fig.

Foister, C. E., Wilson, A. R., and **Boyd, A. E. W.,** Dry-rot disease of the potato. I. Effect of commercial handling methods on the incidence of the disease. Ann. appl. Biol. 39. 1952, 29—37.

Folsom, D., Roach, H. Q., Wiant, J. S., and **Kaufman, J.,** Effect of railroad transit conditions on certain potato tuber diseases. Phytopathology 42. 1952, 112 (Abstr.).

Folsom, D., Roach, H. Q., Wiant, J. S., and **Kaufman, J.,** Effect of storage and railroad transit on potato diseases, injuries, and shrinkage. Maine agric. Exp. Stat. Bull. 507. 1952, 28 p., 1 fig.

Gaskill, J. O., A study of two methods of testing invididual sugar-beet roots for resistance to storage pathogens. Proc. amer. Soc. Sugar Beet Technol. 7. 1952, 575—580.

Groh, Steffen und Schwarz, Lagerung und Vorratshaltung. Schr.reihe AID Nr. 56. 1952, 8 S., 22 Abb.

Haag, A., Grundsätzliches über Kartoffelscheunen. Landw. Wochenbl., München, 142. 1952, 1058—1059, 6 Abb.; 1090—1091, 1 Abb.

Haisma, J. P., (Storage of potatoes. III.) Plattelands-Post (Nederland) 8. 1952, nr. 27, p. 4.

Hansen, F., Opbevaringsforsøg med kartofler 1946—1950. Tidsskr. Planteavl, København, 55. 1952, 303—326.

Hummel, Die zweckmäßigste Art der Mietenlagerung. Kartoffelbau, Hamburg, 3. 1952, 202—203.

Hummel, F., Mietenklima und Windeinfluß. Ber. dtsch. Wetterdienst US-Zone Nr. 32. 1952, 44—47, 9 Abb.

Kappler, E., Frostschäden. Eine Entscheidung des ehem. Obersten Schiedsgerichtes der Kartoffelwirtschaft. Kartoffelwirtschaft 5. 1952, 502—503.

Kern, H., Mietentemperaturmessungen auf Niedermoorboden. Ber. dtsch. Wetterd. US-Zone Nr. 38. 1952, 186—189, 4 Abb.

Kloeppel, R., Die Vorteile des Kartoffelhauses. Ersparnis 1,50—1,70 DM je dz Kartoffeln. Bauernbl. Schlesw.-Holst. 6./102. 1952, 1392—1393.

Knapek, O., Erhöhte Sorgfalt bei der Kartoffellagerung erforderlich. Saarl. Bauernbl. 6. 1952, 217.

Krull, Kartoffeln in der Kiste. Saatgut beschädigungslos ernten. Bauernbl. Schlesw.-Holst. 6./102. 1952, 1136.

Leib, Achtung! Heimtückischer Feind auf dem Kartoffellager. [Phytophthora infestans] Saarl. Bauernbl. 2. 1948, Nr. 11, S. 2—3.

Leibner, H., Das mechanisierte Kartoffellagerhaus. Dtsch. landw. Presse 75. 1952, 272, 2 Abb.

Marais, J. G., The storage of potatoes on the farm. Farming South Afr. 27. 1952, 271—272, 280.

Murawjew, W. A., (Effect of degree of sugar-beet ripeness on resistance of roots [beets] against rot [in storage].) Sakharnaia Promyshlennost' (USSR) 26. 1952, 41—43.

Nagel, R., Einlagerung der Kartoffelernte. Rhein. Bauernztg. 6. 1952, 858, 1 Abb.

Obertreis, Überwinterung der Pflanzkartoffeln. Landw. Ztschr. Nord-Rheinprov. 115. 1948, 4.

Orleans, L. P., and **Cotton, H. R.,** Beet shed ventilation in California. Proc. amer. Soc. Sugar Beet Technol. 7. 1952, 648—651.

Panjan, M., Sprečavanje klijanja krumpira. (Die Hemmung der Kartoffelkeimung.) Biljne proizvodnje, Zagreb, br. 5. 1952, 237—242, 5 fig.

Paterson, D. R., et al., The effect of preharvest foliar sprays of maleic hydrazide on sprout inhibition and storage quality of potatoes. Plant Physiol., Lancaster, 27. 1952, 135—142.

Phillips, W. R., and **Parks, N. M.,** Potato storage. [disorders] Canada Dept. Agric., Ottawa, Publ. 882. 1952, 21 p., 8 fig.

Platzer, S., Neuartige Kartoffeleinmietung. $^4/_5$ Stroh und Arbeit gespart. Bauernbl. Schlesw.-Holst. 6./102. 1952, 1133.

Platzer, S., Noch einmal »Die Wulfsoder Grabenmiete« D. P. Kartoffelbau, Hamburg, 3. 1952, 179—180, 1 Abb.

Quamme, A. G., Ventilation of storage beets by forced air. Proc. amer. Soc. Sugar Beet Technol. 7. 652—654.

Quantz, L., Versuche mit neuen Keimhemmungsmitteln. Nachr. bl. Biol. Zentralanst., Braunschweig, 2. 1950, 32.

Schulze, Der Einfluß der Lagertemperatur auf das Pflanzengut und die daraus erwachsene Kartoffelstaude. Landbau-Forsch., Völkenrode, 4. 1952, 80—82, 8. Abb.

Schulze, W., Kartoffelkeimung im Winterlager. Dtsch. landw. Presse 75. 1952, 257, 3 Abb.

Smith jr., W. L., Decay of nonhaeted and heat-injured potatoes as influenced by storage temperature. Phytopathology 42. 1952, 344.

Smith jr., W. L., and **Smart, H. F.,** Natural barriers protect potatoes from soft rot infection. Phytopathology 42. 1952, 481. (Abstr.).

Steineck, O., Untersuchungen über die keimhemmende Wirkung von α-Naphthylessigsäuremethylester auf Kartoffelknollen. Bodenkultur, Wien, 6. 1952, 55—60.

Urban, H., Tacco-Belüftung zur Kartoffeleinlagerung. Landw. Wochenbl., München, 142. 1952, 1387, 5 Abb.

Wenzl, H., Keimhemmungsmittel für die Kartoffellagerung. Pflanzenarzt, Wien, 5. 1952, Nr. 10, S. 3—4.

Wenzl, H., Lagerungsverluste bei Zuckerrüben — Ursachen und Vorbeugungsmöglichkeiten. Pflanzenarzt, Wien, 5. 1952, Nr. 9, S. 3—4.

Frostschutz im Eisenbahnverkehr. Kartoffelwirtschaft 5. 1952, 10.

c. Getreide
Cereals — Céréales

Arnold, J. W., Effects of certain fumigants on haemocytes of the mediterranean flour moth, Ephestia kühniella Zell. (Lepidoptera: Pyralidae.) Canad. J. Zool. 30. 1952, 365—374.

Arnold, J. W., The haemocytes of the Mediterranean flour moth, Ephestia kühniella Zell. (Lepidoptera: Pyralidae). Canad. J. Zool. 30. 1952, 352—364.

Axelsson, J., och **Kivimäe, A.,** Ensilan, gröpe och Siloferm som tillsats vid grönfoderensilering. (Ensiling experiments with Ensilan, finely ground grains, and Siloferm, added to the ensiled crops.) Kungl. Lantbruksakad. Tidskr. (Ztschr. Kgl. schwed. Akad. Landw.), Stockholm, 91. 1952, 148—157, 2 fig.

Bap Reddy, D., Location and detection of eggs in the grain. Trans. IXth int. Congr. Ent., Amsterdam, 1 (1951). 1952, 841—843.

Bap Reddy, D., Observations on the weight of adult rice weevil, Sitophilus oryzae (L.). Trans. IXth int. Congr. Ent., Amsterdam, 1 (1951). 1952, 837—840.

Barreto, A., (The problem of forage.) [methods of preserving forage plants] Chacaras e Quintaes, São Paulo, 85. 1952, 221-222.

Bassols, I., y **Barrera A. A.,** Notas sobre larvas. II. »Calandra callosa« (Oliver), 1807, nueva plaga del maíz en Mexico. Fitófilo, San Jacinto, 6. 1952, nr. 6, p. 32—42.

Berliner, Mikroskopische Kontrolle in der Mühle. Dtsch. Müller-Ztg. 50. 1952. 123.

Berliner, Zusammenhänge zwischen Lagerung, Alterung, Keimfähigkeit, Vorbereitung, Mehlbehandlung und Backfähigkeit des Weizens und seiner Mahlprodukte. Dtsch. Müller-Ztg. 50. 1952, 121—122.

Bernfus, E., Die Kornkäferbekämpfung in der Brauerei mit Geigy 33. Mitt. Vers. stat. Gärungsgewerbe 6. 1952. 89—91.

Bottomley, R. A., Christensen, C. M., and **Geddes, W. F.,** Grain storage studies. X. The influence of aeration, time, and moisture content on fat acidity, nonreducing sugars, and mold flora of stored yellow corn. Cereal Chem., St. Paul, 29. 1952, nr. 1, p. 53—64.

Brühmann, W. F., Getreide-Vorratsschädlinge und ihre Bekämpfung in der SBZ. Mühle 89. 1952, 196, 211—212, 1 Abb.

Cashman, E. F., Effect of parental feeding on rate of development of offspring of the confused flour beetle, Tribolium confusum Duv. (Coleoptera: Tenebrionidae). Ontario ent. Soc. Ann. Rept. 82 (1951). 1952, 74—77.

Cavina, R. (Cleaning and disinfecting grain.) Lavoura e Criação, Rio de Janeiro, 7. 1952, nr. 42, p. 58.

Christensen, C. M., King Pharaoh and the fungi. [molds in wheat and flour storage] Co-op. Grain Quart. 10. 1952, 17—21.

Christensen, C. M., Molds on stored barley. Seed World 71. 1952, nr. 8, p. 35.

Christensen, C. M., Sick wheat. [caused by moisture content when harvested and during storage] Minnesota Farm, Home Sci. 10. 1952, 3, 19.

Christensen, C. M., and **Gordon, D. R.,** The mold flora of stored wheat and corn and its relation to heating of moist grain. Cereal Chem., St. Paul, 25. 1948, nr. 1, p. 40—51.

Conradt, W. P., Kornkäferbekämpfung. Mitt. dtsch. Landw.-Ges., Frankfurt/M., 67. 1952, 666.

Corkins, J. P., Stored grain insects. Bugs 5. 1952, 49—50.

Cotton, R. T., Insect pests of stored grain and grain products. Identification, habits and methods of control. Burgess Publ. Comp., Minneapolis 1952, 2. ed., 244 p., 93 fig.

Cotton, R. T., and **Ashby, W.,** Insect pests of stored grains and seed. US Dept. Agric. Yearb. Agric. 1952, 629—639.

Cotton, R. T., Frankenfeld, J. C., and **Redlinger, L. M.,** The fumigation of grain in elevators. Northwest. Miller (Milling Prod. Sect.) 247. 1952, nr. 20. p. 1a, 18a—19a.

Cotton, R. T., and **Walkden, H. H.,** Insect control in the country wheat elevator. US Bur. Ent., Plant Quar. EC-24. 1952, 16 p.

Cottrell, D. R., Universal use of hot-spot detector system foreseen. [in grain storage] Right off Cob 6. 1952, nr. 11, p. 4—5.

Deckenbrock, W., Zur Frage der Verwendung von Schädlingsbekämpfungsmitteln in der Brennerei. Branntweinwirtschaft, Berlin, 74. 1952, 249—252, 271—273.

Del Prado, F. A., and **Christensen, C. M.,** Grain storage studies. XII. The fungus flora of stored rice seed. Cereal Chem., St. Paul, 29. 1952, 456—462.

Deschreider, A. R., L-Action des rayons ultra-violets sur la farine. VI. L'irradiation de la l-cystéine. Bull. École Meun. belge 14. 1952, 64—77.

Dierchen, W., Der äußere und innere Pilzbefall beim Getreidekorn. Getreide u. Mehl 2. 1952, 125—127.

Dierchen, W., Die Reduktion von Janusgrün als Nachweis des Bakteriengehaltes bei Getreide. I. Weizen. Getreide u. Mehl 2. 1952, 64—66, 3 Abb.

Dörner, H., Neuere Untersuchungen über Veränderungen des Mehles bei der Lagerung. Getreide u. Mehl 2. 1952, 109—112, 7 Abb.

Dove, W. E., In farm stored grains, help farmers keep the weevils out! Better Farming Methods 24. 1952, 18, 20.

Dove, W. E., Piperonyl butoxide and pyrethrins for the protections of grains and similar products from insect damage. Trans. IXth int. Congr. Ent., Amsterdam, 1 (1951). 1952, 875—879.

Dubois, D., Use of the X-ray in milling wheat selection. [inspection of wheat for internal insect infestation] Northwest. Miller (Milling Prod. Sect.) 248. 1952, nr. 11, p. 1a, 18a.

Easter, St. S., Infestation control in stored rice. FAO Plant Prot. Bull. 1. 1952, 40—41.

Easter, St. S., Preservation of grains in storage. Papers presented at the International Meeting on Infestation of Foodstuffs, London, 5—12 August 1947. FAO, Rom, Agric. Stud. nr. 2. 1952, 2. ed., IV+174 p., 2 fig., 4 tab.

Eden, W. G., Effect of huks cover of corn on rice weevil damage in Alabama. J. econ. Ent. 45. 1952, 543—544.

Eden, W. G., Effects of kernel characteristics and components of husk cover on rice weevil damage to corn. J. econ. Ent. 45. 1952, 1084—1085.

Engel, Kampf dem gefährlichen Kornkäfer! Bauern-Ztg. 5. 1952, Nr. 33, S. 5.

Engel, H., Die Bekämpfung des Getreideplattkäfers Oryzaephilus surinamensis L. in Wohnräumen. Anz. Schädl.kunde 25. 1952, 152.

Ext, W., Kornkäferbekämpfung im bäuerlichen Betrieb. In: Vorratsschutz (Verl. Kommentator, GmbH, Frankfurt/M. 1952), S. 18—21.

Farrell, E. P., and **Milner, M.,** Insect fragment problem in the milling industry. A report prepared for the Millers' National Federation. Kansas agric. Exp. Stat. Circ. 291. 1952, 24 p., 10 fig.

Freeman, J. A., Laemophloeus spp. as major pests of stored grain. Plant Path., London, 1. 1952, 69—76, 1 tab.

Frey, W., Kornkäferbekämpfung in Großlägern, insbesondere neuere Silobegasungsverfahren. In: Vorratsschutz (Verl. Kommentator, GmbH, Frankfurt/M. 1952), S. 22—25, 1 Abb.

Frey, W., Der Kornkäfer [Sitophilus granarius] und andere Schädlinge im Getreidespeicher. Dtsch. Müller-Ztg. 50. 1952, 422—423.

Frey, W., Lebensweise und Schadbild des Kornkäfers und anderer Speicherschädlinge. In: Vorratsschutz (Verlag Kommentator, GmbH, Frankfurt/M 1952), S. 13—17, 11 Abb.

Fricker, A., »Kornvögel« sind wieder da! [Kornkäfer] Württ. Wochenbl. Landw. 119. 1952, 519.

Frickhinger, H. W., Starke Vermehrung des Kornkäfers. [Sitophilus granarius] Dtsch. Müller-Ztg. 50. 1952, 83—84.

Frickhinger, H. W., Die wichtigsten Mehlschädlinge und ihre Bekämpfung. Dtsch. Lebensm.-Rundschau, Nürnberg, 48. 1952, 59—62.

Frommeld, Bekämpft den Kornkäfer! Württ. Wochenbl. Landw. 119. 1952, 612.

Ganter, Kleinsilo für Getreidebegasung. Mühle 89. 1952, 502, 1 Abb.

Gołębiowska, Z., (Investigations about the fighting against the corn-weevil (Calandra granaria L.) with the home-made and foreign insecticides.) Roczn. Nauk roln., Kraków, 59. 1952, 243—258.

Goodman, J. J., and **Christensen, C. M.,** Grain storage studies XI. Lipolytic activity of fungi isolated from stored corn. Cereal Chem., St. Paul, 29. 1952, 299—308.

Goodwin-Bailey, K. F., and **Holborn, J. M.,** Laboratory and field experiments with pyrethrins. Piperonyl butoxide powders for the protection of grain. [Calandra granaria] Pyrethrum Post 4. 1952, nr. 2, p. 7—17.

Goossen, H., Jetzt den Kornkäfer bekämpfen! [Sitophilus granarius] Landw. Wochenbl. Westfalen, Lippe 109 A. 1952, 1175.

Grandori, R., Protection et desinfection du blé emmagasiné par des substances nontoxiques. Trans. IXth int. Congr. Ent., Amsterdam, 1 (1951). 1952, 849—854.

Gunter, A. C., Storage of rice. Texas agric. Coll. Ext. MS—886. 1952, 5 p.

Hampel, G., Die exakte Bestimmung der Stärkebeschädigung und des Totmahlens durch die Amylosezahl. Getreide u. Mehl 2. 1952, 16—19.

Hampel, G. Neue Methoden zum Nachweis von Verunreinigungen tierischer Herkunft in Getreideerzeugnissen. Getreide und Mehl 2. 1952, 117—123.

Harris, K. L., and **Nicholson, J. F.,** Evaluation of X-ray inspection techniques for insect damage to wheat. (Adapted.) Northwest. Miller (Milling Prod. Sect.) 248. 1952, nr. 20, p. 8a—11a.

Harris, K. L., Nicholson, J. F., Randolph, L. K., and **Trawick, J. L.,** An investigation of insect and rodent contamination of wheat and wheat fluor. J. Assoc. off. agric. Chemists, Washington, 35. 1952, 115—158.

Havelka, J., a **Winkler, J.,** Studie o škůdci Tribolium destructor Uyttenb. (The destructive fluor beetle Tribolium destructor Uyttenb.) Zool., ent. Listy (Folia zool., ent.), Brno (CSR), 1. 1952, 230—237, 17 fig.

Hellström, N., The total composition of hay. I. Acta Agric. Scand., Stockholm, 2. 1952, 279—294, 3 fig.

Howe, R. W., The biology of the rice weevil, Calandra oryzae (L.). Ann. appl. Biol. 39. 1952, 168—180, 1 fig.

Howe, R. W., Miscellaneous experiments with grain weevils. [Calandra species] Ent.'s mon. Mag., London, 88. 1952, 252—255.

Howe, R. W., and **Oxley, T. A.,** Detection of insects by their carbon dioxide production. [control of grain storage pests] H. M. Stat. Off., London 1952, 20 p.

Hubert, K., Die wichtigsten Schädlinge des lagernden Getreides und ihre Bekämpfung. Pfl.schutzamt Sachsen-Anhalt Merkbl. Nr. 67. 1952, 2. Aufl., 8 S., 7 Abb.

Jacobs, B. R., Analyses and inspections for infestation. Macaroni J. 30. 1948, nr. 2, p. 16.

James, N., and **Lejeune, A. R.,** Microflora and the heating of damp stored wheat. Canad. J. Bot. 30. 1952, nr. 1, p. 1—8.

Johansson, E., och **Sömermaa, K.,** Ett aktuellt fall av insekt- och svampskador pa sädeskärnor. Växtskyddsnotiser, Stockholm, 16, 1952, 14—16, 1 tab.

Johnson, R. K., X-rays spur infestation control. Food Engin. 24. 1952, nr. 9, p. 75—77, 168—170, 4 fig.

Johnston, H. G., and **Sorenson jr., J. W.,** Control of storage insects in sorghum grain in south Texas. Texas agric. Exp. Stat. Progr. Rept. 1488. 1952, 4 p.

Jones, J. C., and **Tauber, O. E.,** Effects of hemorrhage, cauterization, ligation, desiccation, and starvation on hemocytes of mealworm larvae (Tenebrio molitor L.). Iowa State Coll. J. Sci. 26. 1952, 371—386.

Jones, W. L., Jezeski, J. J., and **Geddes, W. F.,** The heat resistance of the intermophilic spores present in wheat and wheat products. Cereal Chem., St. Paul, 30. 1952, 12—21.

Juscafresa, B., La esterilización como medio de conservar los cereales y leguminosas. Ceres, Valladolid, 17. 1952, nr. 187, p. 27, 29.

Kästner, W. Mehlkleinpackungen und Gewichtsverluste. Mühle 90. 1952, 7—8.

Klauß, Der Kornkäfer. Saarl. Bauernbl. 6. 1952, 198.

Kurtz, O. L., Carson, N. A., and **van Dame, H. C.,** Identification of cereal insects in stored grain by their mandible characteristics. J. Assoc. off. agric. Chemists, Washington, 35. 1952, 817—826, 12 fig., 12 tab.

Lange, Kornkäfer bedrohen die neue Ernte! Landw.bl. Weser-Ems 99. 1952, 707—708.

Larrick, G. P., The grain sanitation program. Food Drug Cosmetic Law J. 7. 1952, 816—824.

Leitte, E. H., Fluor mill sanitation. [insect control] Bull. Assoc. operat. Millers June 1952, 1967—1968.

Lengerer, E., Schädlingsbekämpfung — ein Problem. Müllerei 5. 1952, 338.

Loeb, J. R., and **Mayne, R. W.,** Effect of moisture on the microflora and formation of free fatty acids in rice bran. Cereal Chem., St. Paul, 29. 1952, 163—175.

Loschiavo, S. R , A study of some food preferences of Tribolium confusum Duv. Cereal Chem., St. Paul, 29. 1952, 91—107.

Machacek, J. E., and **Wallace, H. A. H.,** Longevity of some common fungi in cereal seed. Canad. J. Bot. 30. 1952, 164—169.

Mathlein, R., Kornviveln kan bli DDT-resistent. Växtskyddsnotiser, Stockholm, 16. 1952, 27—28.

Mathlein, R., Om insektsskador på långtidslagrad spannmål. [Laemophloeus ferrugineus, Oryzaephilus surinamensis] Växtskyddsnotiser, Stockholm, 16. 1952, 79—82, 2 fig.

Mathlein, R., Undersökningar över uppkomst av DDT-resistens hos kornvivel, Calandra granaria L. Stat. Växtskyddsanst., Stockholm, Meddel. nr. 52. 1952, 20 p., 1 fig.

Medel, Richtige Vorratspflege bei der Getreidelagerung. Mühle 89. 1952, 5—6, 21, 1 Abb.

Mehl, S., Die Bekämpfung der Ratten in Mühlen und Mehllagern. Dtsch. Müller-Ztg. 1950, H. 20, 4 S.

Mills jr., H. O., Protect your corn from pests. East. States Co-op. 28. 1952, nr. 6, p. 10—11.

Monte, G. D., (The enemies of flour.) [insect pests] Molini Italia 3. 1952, 317—320.

Nagel, R., Die Belüftung, ein Problem der Getreidelagerung. Müllerei 5. 1952, 705—706, 2 Abb.

Nehring, K., Die Bedeutung der Milbenfrage in der Futtermittelwirtschaft. Sitzungsber. dtsch. Akad. Landw.wiss. Berlin 1. 1952, H. 5, 9 S., 3 Abb.

Neitzert, Beeinflussung der Mahlfähigkeit von Brotgetreide durch Lagerung, Trocknung, Abstehen und Konditionierung. Dtsch. Müller-Ztg. 50. 1952, 123—124.

Nettles, W. C., »A tale of two cities«. Grain protectants and seedsmen play vital role in far-reaching movement initiated by South Carolina and Georgio. [grain storage pests] South. Seedsman (Texas) 15. 1952, nr. 2, p. 24, 76.

Nuorteva, P., und **Kanervo, V.,** Einwirkung von Thysanopterenschädigung auf die Backfähigkeit des Weizens. Suomen Hyönteistiet. Aikakausk. (Ann. ent. fenn.), Helsinki, 18. 1952, 137—147, 6 fig.

Offhaus, K., Der Vitaminbedarf des Reismehlkäfers Tribolium confusum Duval. I. Mitt. Über den für Tribolium confusum lebensnotwendigen wasserunlöslichen Hefeanteil. Ztschr. Vitamin-, Hormon-, Fermentforsch., Wien, 4. 1952, 555—563.

Packard, C. M., Cereal and forage insects. US Dept. Agric. Yearb. Agric. 1952, 581—595, 2 fig.

Parkin, E. A., The effect of BHC and DDT smokes on insects in a farm granary. Trans. IXth int. Congr. Ent., Amsterdam, 1 (1951). 1952, 880—884.

Pereira, H. F., e **de Andrade, A. N.,** (Fumigation of cereals and leguminous grains in the hold of the ship.) Biológico, São Paulo, 18. 1952, 21—31.

Petrik, C., (A case of deviation in the normal morphological structure of the angoumois grain moth's ovaria.) [Sitotroga cerealella] Proc. Matica Srpska (ser. natural Sci.), Novi Sad, 2. 1952, 38—62, 14 fig.

Pindur, W., Kornkäfer bekämpfen! (Sitophilus granarius] Bauer (Österr.) 5. 1952, Nr. 22, S. 14—16.

Potter, G. C., and **Shellenberger, J. A.,** The detection of insects contaminates in cereals by a spectrophotometric procedure. Cereal Chem., St. Paul, 29. 1952, 223—227.

Redlinger, L. M., and **Wilson, B. R.,** Angoumois grain moth (Sitotroga cerealella) in the corn belt. J. Kansas ent. Soc. 25. 1952, 22—23.

Restrepo, L. E., y **Ruppel, R. F.,** La efectividad residual de insecticidas en polvo en la proteccion de maiz y frijol almacenados. Agric. trop. (Colombia) 14. 1958, nr. 1, p. 5—8.

Richardson, C. H., Comparative toxicity of the vapors of several chlorinated methane and ethane derivatives to the rice weevil (Sitophilus oryza). Iowa State Coll. J. Sci. 26. 1952, 357—369.

Rivals, P., Remarques sur la vie du charançon des céréales (Sitophilus granarius). Terre d'Oc (France) 34. 1952, 192—194.

Rivera H., R., Conversación de granos. [fumigation for insect control] Bol. Agr. Soc. Antioqueña Agr. 383. 1952, 3314—3315.

Scade, J., Focus on flour. [insect control and conservation] Bakers' nat. Assoc. Rev. 69. 1952, 462—463.

Scheuch, F., Lagern und Gesunderhaltung des Mehles in Mühle und Bäckerei. Dtsch. Müller-Ztg. 50. 1952, 468—469.

Schmidt, H. W., Der Kornkäfer in der Mühle (Leben, Schadbild und Bekämpfung). Müllerei 5. 1952, 366.

Seidel, K., Die zweckmäßige Getreidelagerung. In: Vorratsschutz (Verl. Kommentator, GmbH, Frankfurt/M. 1952), S. 30—34.

Sellke, K., Bekämpfung des Kornkäfers durch Stäubemittel. Jahrb. Müllerei (Fachbuchverlag, GmbH, Leipzig), 1952, 263—267.

Sellke, K., Der Kornkäfer. Biol. Zentralanst. Berlin Flugbl. Nr. 1. 1952, 2. Aufl., 7 S., 2 Abb.

Sellke, K., Kornkäfereinstäubemittel und ihr Verhalten im behandelten Getreide. Nachr.bl. dtsch. Pfl.-schutzd., Berlin, NF. 6. 1952, 121—127, 5 Abb.

Simkover, H. G., and **Reed, M. R.,** A limited survey of insect, rodent, and bird contamination of grain storage facilities in eastern Washington with recommendations for its prevention. Washington agric. Exp. Stat. Circ. 205. 1952, 10 p.

Smallman, B. N., and **Loschiavo, S. R.,** Mill sanitation studies. I. Relative susceptibilities of mill stocks to infestation by the confused flour beetle. [Tribolium confusum] Cereal Chem., St. Paul, 29. 1952, 431—440.

Sturgeon, J. H., Stored grain pests cause $ 300 million damage annually. Pest Control, Ohio, 20. 1952, nr. 5, p. 12, 14, 16.

Swaebly, M. A., and **Christensen, C. M.,** Microbiological content of grain dust. Phytopathology 42. 1952, 476.

Swinbank, J. C., and **Helm, R.,** Grain is food—keep it clean! [stored grain insects, rats and mices] Nebraska Farmer 94. 1952, nr. 10, p. 7, 29.

Thomas, B., und **Anders, E.,** Stäubemittel (Anoxid) zur Bekämpfung des Kornkäfers im Mahlgetreide. Lebensmittelindustrie 4. 1952, H. 2 (Ausg. A), S. 41—43.

Tornow, E., Nachweis von Gift und Unkraut im Getreide und Mehl. Salesian. Offizin, München 1952, 78 S., 60 Abb., 10 Taf.

Trappmann, W., Einstäubemittel zur Bekämpfung von Schadinsekten im Getreide. Nachr.bl. dtsch. Pfl.-schutzd., Braunschweig, 4. 1952, 106—108.

Trappmann, W., Zur Frage der Einstäubemittel zur Kornkäferbekämpfung. In: Vorratsschutz (Verl. Kommentator, GmbH, Frankfurt/M., 1952), S. 26—29.

Tuite, J., and **Christensen, C. M.,** Fungi important in storage of barley. Phytopathology 42. 1952, 476.

Ulrich, H., Der Kampf gegen Getreide und Lagerschädlinge. Müllerei 5. 1952, 467—468.

Ulrich, H., Über die Angleichung unterschiedlicher Feuchtigkeiten des Lagergetreides. Müllerei 5. 1952, 159—160.

Ulrich, H., Welcher Schwund entsteht beim Lagern des Getreides Müllerei 5. 1952, 349—350.

Valder, P. G., Fungi detected on imported rice. Austr. Plant Dis. Recorder 4. 1952, 3—4.

Vayssière, P., Au sujet de la protection des grains contre leurs parasites. Meunerie franç., Paris, 73. 1952, 23—26.

Vukasović, P., (Un cas d'importation massive de Calandra oryzae L.) Saschtita Bilja (Plant Prot.), Beograd, nr. 10. 1952, 62—65.

Wear, L., Industry pools its brains in fight against grain infestation. Progr. Res. 7. 1952, 10—13.

Weyer, F., Die künstliche Infektion von Kleiderläusen (Pediculus humanus) und Mehlkäferlarven (Tenebrio molitor) mit Rickettsia conori (Zeckenbißfieber). Acta trop., Basel, 9. 1952, 170—183.

White, G. D., Experiments in preventing the build-up of insects in newly harvested wheat. US Bur. Ent., Plant Quart., Washington, E-850. 1952, 3 p.

Winburn, T. F., Fumigants and protectants for controlling insects in stored grain. Pest Control, Ohio, 20. 1952, nr. 8, p. 9—11, 32, 42.

Wolfram, R., Versuche über Getreidebehandlung mit kontaktinsektiziden Stäuben. Mühle 89. 1952, 405—406.

Wolfram, R., Zur Einstäubung von Getreide mit Kontaktinsektiziden. Anz. Schädl.kunde 25. 1952, 73—75.

Zacher, F., Pulverförmige Bekämpfungsmittel gegen Getreideschädlinge. Mühle 89. 1952, 612—613, 623, 627.

Zeumer, H., Zur Frage der Anwendung der DDT- und »Hexa«-Einstäubemittel gegen Kornkäfer in Getreidebeständen. Nachr.bl. dtsch. Pfl.schutzd., Braunschweig, 4. 1952, 28—29.

Zimmermann, Kornkäferbekämpfung nicht vergessen! Landw. Wochenbl. Kurh., Waldeck 167. 1952, 838.

Zirkel, H., Die praktischen Gegebenheiten bei der Bekämpfung der Getreideschädlinge in Leerräumen. Mühle 89. 1952, 301—303, 314—315.

Zirkel, H., Über die Anwendung des »VG-Schlauchsonderverfahrens« und der »Delicia-Begasung« in Silozellen. Mühle 89. 1952, 381—382, 395.

Das **Auftreten der Mehlmilbe** und ihre Bekämpfung. Mühle 89. 1952, 474.

The **common grain weevil** (Calandra oryzae). Agric. Gaz. New South Wales 63. 1952, 599—603.

Detection of insects in grain. Nature, London, 170. 1952, 562.

Gammexane products for the protection of grain, flour and other foodstuffs from insect attack with notes on »Killoptera« fumigation. Imp. chem. Ind., Birmingham 1952(?) 34 p.

Kampf dem Kornkäfer, der unsere Getreidevorräte vernichtet! Biol. Bundesanst., Braunschweig, Merkbl. Nr. 5. 1952, 2 S., 1 Abb.

Kampf den Kornkäfern und Kornmotten! Bad. landw. Wochenbl. 119. 1952, 449, 2 Abb.

Kornkäferbekämpfung. Mühle 89. 1952, 598.

Neue Wege der Getreideschädlingsbekämpfung. Mühle 89. 1952, 212.

Röntgenstrahlen zur Ermittlung des Schädlingsbefalls. Mühle 89. 1952, 164.

Schädlingsbekämpfung in Mühlen. Mühle 89. 1952, 719.

Verzeichnis amtlich geprüfter und anerkannter Mittel gegen Speicher- und Mühlenschädlinge. Biol. Bundesanst., Braunschweig, Merkbl. Nr. 6. 1952, 4 S.

Werden es die Kornkäfer schaffen? Mühle 89. 1952, 799.

Zur Bekämpfung des Kornkäfers in den Schwerabfällen der Mühlen. Mühle 89. 1952, 688.

d. Hülsenfrüchte
Legumes — Légumineuses

Carter, D. G., and **Holman, L. E.,** Storing soybeans on the farm. Illinois agric. Coll. Ext. Circ. nr. 692. 1952, 15 p.

Juscafresa, B., La esterilización como medio de conservar los cereales y leguminosas. Ceres, Valladolid, 17. 1952, nr. 187, p. 27, 29.

Lin, S., and **Richards, A. G.,** Studies on the nutritional value of soybean flour to Tribolium confusum Duv. J. New York ent. Soc. 60. 1952, 107—118.

Nelson, H. D., and **Fisher, C. K.,** Control of insects that attack dried beans und peas in storage. US Bur. Ent., Plant Quar., Washington, EC—27. 1952, 12 p.

Pereira, H. F., and **de Andrade, A. N.,** (Fumigation of cereals and leguminous grains in the hold of the ship.) Biológico, São Paulo, 18. 1952, 21—31.

Stern, A. M., Studies on the physiology of the Mucor mucedo and its role in the fermentation of soybean curd. Diss. Univ. Illinois Abstr. 12. 1952, 6.

e. Obst und Gemüse
Fruits and vegetables
Fruits et plantes maraîchères

Balaganskaja, V. E., (The storage of fresh cucumbers.) Sad i Ogorod (Orchard and Garden) 8. 1952, 49—50.

Barnes, D. F., and **Simmons, P.,** Competition between saw-toothed grain beetle and Indian-meal moth. J. econ. Ent. 45. 1952, 750—751.

Beneke, E. S., and **Young, W. J.,** Reducing mold counts in canned or frozen black raspberries. Phytopathology 42. 1952, 2 (Abstr.).

Bömeke, H., Holzschutzmittel und Obstlagerung. Mitt. Mitgl. Obstbauvers.ring Altes Land, usw., Jork, 7. 1952, 234—235.

Borchardt, H., Kaltlagerungsversuch mit beregnetem Obst. Obstbau 71. 1952, 137—138, 167—168, 7 Abb.

Boyes, W. W., Ginsburg, L., and **de Villiers, D. J. R.,** Storage tests with plums. Farming South Afr. 27. 1952, 299—302.

Braunger, Frischluft-gekühlte Obstlagerräume. Obstbau 71. 1952, 138—139.

Clarke jr., W. S., A comparison of the storage life of standard varieties of apples with their red bud sports. Proc. amer. Soc. hortic. Sci. 59. 1952, 315—318, — Proc. 93rd Ann. Meetg. Pennsylv. State hortic. Soc. 9. 1952, nr. 1, p. 64—67.

Cottier, W., The cold sterilization of oranges from South Africa. New Zealand Sci. Rev. 10. 1952, 99 (Abstr.).

Crang, A., and **Sturdy, M.,** A comparison of some varieties of vegetables preserved by bottling, canning and freezing. Progress report I. Ann. Rept. agric., hortic. Res. Stat., Long Ashton (Bristol), 1951. 1952, 199—206.

Dallyn, S., and **Smith, O.,** Effect of applications of growth substances on sprouting of carrots, turnips, and onions in storage. Bot. Gaz., Chicago, 113. 1952, 362—367.

Delitala, A., Una nuova specie die Phialophora (Ph. goidanichii) agente di marciume in mele immagazzinate. (A new species of Phialophora (Ph. goidanichii) causing a rot of apples in storage.) Ann. Sperim agr., Roma, 6 (n. ser.). 1952, 249—257, 4 fig., 1 tab.

Dullum, N., og **Rasmussen, P. M.,** Frugtopbevaring. Sammenligning af koldärlager og almindelig ventileret lager. (Comparison between a common ventilated fruitstore and koldär.) Tidsskr. Planteavl, København, 55. 1952, 211—236, 7 fig.

Eckblad, I., Some research on fruit and vegetable preservation. Washington State Coll. Ext. Mimeogr. 1234. 1952, 9 p.

Erickson, L. C., Growth regulators and lemon storage. Calif. Citrogr. 37. 1952, 321.

Erickson, L. C., Lemon storage. Pre-storage treatment reduces black buttons, decay, delays fruit aging. Calif. Agric., Berkeley, 6. 1952, nr. 12, p. 4, 1 fig.

Fidler, J. C., Factors affecting the efficiency of gas storage of apples and pears. Kent Farmers' J. 1. 1952, 243—245.

Friedman, B. A., Vacuum cooling of vegetables and fruits. Veg. Grower's Assoc. Amer. Ann. Rept. 1951. 1952, 98—104.

Fritzsche, R., Abnorme Erscheinungen am Lagerobst. Schweiz. Ztschr. Obst-, Weinbau 61. 1952, 499—503, 4 Abb.

Gassner, J. K., Mechanische Beschädigungen an Äpfeln. Ihre Ursachen und Möglichkeiten der Verhinderung. Zentralbl. dtsch. Erwerbsgartenbau 4. 1952, Nr. 49, S. 1 u. 3, 4 Abb.

Gieseker, L. F., and **Strasburger, L. V.,** Smoke waste contamination in canned foods. Canning Trade, Baltimore, 74. 1952, nr. 49, p. 6.

Govi, G., Un marciume di frutti immagazzinati (Phacidiopycnis furfuracea (Rostr.) Jørst.). (A rot of stored fruits (Phacidiopycnis furfuracea (Rostr.) Jørst.).) Ann. Sperim. agr., Roma, 6 (n. ser.). 1952, 1121—1129, 7 fig.

Harding, P. L., Wiant, J. S., Hruschka, H. W., Sunday, M. B., and **Kaufman, J.,** The effect of prestorage, packinghouse treatments on the control of decay of Florida oranges during storage at Orlando, Florida, and New York City, New York, 1951. US Bur. Plant Ind., Soils agric. Engin. Off. Rept. 266. 1952, 20 p.

Harvey, J. M., Field applications of fungicide reduce decay in stored grapes. Phytopathology 42. 1952, 514 (Abstr.).

Hoare, A. H., Four types of storing. [apple storage] Farmerand Stock-Breeder 66. 1952, nr. 3277, p. 45.

Holz, W., Krankheiten an lagernden Äpfeln. Gesunde Pflanzen 4. 1952, 243—247, 2 Abb.

Holz, W., Die wichtigsten Krankheiten an lagernden Äpfeln und ihre Verhütung. Biol. Bundesanst., Braunschweig, Flugbl. 0—6. 1952, 8 S., 6 Abb.

Huebner, J., (Onions for storage.) Hassadeh, Tel-Aviv, 32. 1952, 325—326.

Ildis, L'entreposage frigorifique des oignons secs. Résultats de la campagne 1950—1951. Terre maroc. 26. 1952, 20—22.

Klotz, L. J., and **de Wolfe, T. A.,** Steam sterilization of citrus boxes. Calif. Citrogr., Berkeley, 38. 1952, 68.

Kraska, E. J., How to prevent damage to canned goods. West. Canner, Packer, San Francisco, 44, 1952, nr. 5, p. 34—36, 38.

Larsen, E., Frugtlagring på Danmarks største og mest moderne salgsforening. (Fruit storage at Denmark's largest and most modern sales co-operative.) Erhvervsfrugtavleren, Odense, Danmark, 19. 1952, 11—14.

Leipold, F., Lagerung des Dauerobstes unter besonderer Berücksichtigung der Erdmietenlagerung. Rhein. Monatsschr. Gemüse-, Obst-, Gartenbau 40. 1952, 207.

Levin, J. H., and **Gaston, H. P.,** How to reduce losses caused by apple bruising. Michigan State Coll. Agric. Ext. Folder F-172. 1952, 6 p.

Ljudkin, F. M., (Methods of storing onoin sets in the northern zone.) Sad i Ogorod (Orchard and Garden) 1952, nr. 11, p. 55—57.

Mandeno, J. L., and **Padfield, C. A. S.,** Refrigerated gas storage of apples in New Zealand. I. — Equipment and experimental procedure. New Zealand J. Sci., Technol. (B) 34. 1952, 462.

Mann, G., The ventilation of farm buildings used for the storage of fruit and vegetables. Agriculture, J. Minist. Agric. ,London, 59. 1952, 335—338, 5 fig.

Mapson, L. W., Factors in distribution affecting the quality and nutritive value of foodstoffs. Loss of nutrients during the transport and distribution of fruits and vegetables. Chem. Ind., London, 1952, nr. 2, p. 25—28.

Marshall, C. R., and **Walkley, V. T.,** Some aspects of microbiology applied to commercial apple juice production. VI. The significance of changes in the relative incidence of spoilage organisms during processing. Food Res., Champaign (Illinois), 17. 1952, 307—314.

Melville, F., Diphenyl wraps for oranges; storage experiments with Washington navels. J. Dept. Agric. west. Austr. 1. (n. ser.) 1952, 44—46.

Nel, R. I., The fruit industry in the winter-rainfall area. Farming South Afr. 27. 1952, 630—635.

Nicolaisen, N., und **Nicolaisen-Scupin, L.,** Lagerungs-Schäden an Obst, insbesondere bei Kaltlagerung C. F. Müller, GmbH, Karlsruhe 1952. 47 S., 17 farb. Taf.

Nilsson, R., och **Björklund, C. M.,** Lagringsförsök med olika stammar av betor och kålrötter. (Storage trials with different strains of mangels and swedes.) Kungl. Lantbruksakad. Tidskr. (Ztschr. Kgl. schwed. Akad. Landw.), Stockholm, 91. 1952, 107—115.

Nissley, C. H., Moisture, temperature, ventilation vital in growing plants: an expert tells how to prepare seed beds, control disease, care for and transplant young seedlings. [vegetables in coldframes] Market Grower's J., Louisville (Kentucky), 81. 1952, 10, 34.

Ogata, K., and **Imayuki, T.,** (Studies on the storage of perishable agricultural products. V. Studies on the respiration of some vegetables after harvesting.) Techn. Bull. Kagawa agric. Coll. 3. 1952, 158—165.

Phillips, W. R., and **Poapst, P. A.,** Storage of apples. [disorders] Canada Dept. Agric. ,Ottawa, Publ. 776 (rev.). 1952, 43 p., 20 fig.

Porritt, S. W., Fisher, D. V., and **Edge, E. D.,** Mouse control in fruit cold storages by means of carbon monoxide and methyl bromide fumigation. Proc. amer. Soc. hortic. Sci. 60. 1952, 265—271.

Rader, W. E., Diseases of stored carrots in New York State. Cornell Univ. agric. Exp. Stat. Bull. 889. 1952, 64 p., 14 fig., 2 tab. col.

Refatti, E., e **Lepori, L.,** Ticchiolatura tardiva di magazzino su frutti di pero. (Late scab on pears in storage.) Ann. Sperim. agr., Roma, 6 (n. ser.). 1952, 1217—1234, 7 fig.

Richardson, H. H., Cold treatment of fruits. US Dept. Agric. Yearb. Agric. 1952, 404—406.

Sasamoto, K., (Application of DDT treatment paper bags to peach for control of insect pests.) J. Plant Prot., Tokyo, 41. 1952, 414.

Schuch, K., Über die Schädigung von lagerndem Obst durch ein bifluoridhaltiges Holzschutzmittel. Nachr.bl. dtsch. Pfl.schutzd., Braunschweig, 4. 1952, 136—137.

Scott, W. J., Mould wastage in stored fruit. [Penicillium expansum, P. digitatum, Rhizopus, Sclerotinia] Food Preserv. Quart., Sidney, 12. 1952, nr. 3—4, p. 21—25.

Sharvelle, E. G., and **Vandermark, J. S.,** Volatile chemicals for the inhibition of fruit losses in storage and transit. Phytopathology 42. 1952, 19 (Abstr.).

Shurtleff, M. C., and **Shutak, V. G.,** Control of peach brown rot with the sodium salt of dehydroacetic acid. Phytopathology 42. 1952, 19 (Abstr.).

Singh, K. K., Kapur, N. S., and **Mathur, P. B.,** Cold storage of brinjals. [Solanum melongena] Indian J. Hortic. 9. 1952, nr. 1, p. 16—19.

Singh, K. K., Kapur, N. S., and **Mathur, P. B.,** Studies in cold storage of beet roots, cabbages, cauliflowers and sweet-potatoes. Indian J. Hortic. 9. 1952, nr. 1, p. 1—12.

Smith, R. J., A time and motion study in packing lemons. Calif. Citrogr. 37. 1952, 275, 292—295.

Smith, W. H., The commercial storage of vegetables. Refrig. J., Melbourne, 5. 1952, nr. 12, p. 28, 30, 32—34.

Smith, W. H., Factors in distribution affecting the quality and nutritional value of foodstuffs. Loss of quality in fresh fruits and vegetables during distribution. Chem. Ind., London, 1952, nr. 1, p. 8—10.

Smith jr., W. L., Streptomycin sulfate for control of bacterial soft rot of packaged spinach. Phytopathology 42. 1952, 475.

Stewart, W. S., Palmer, J. E., and **Hield, H. Z.,** Packinghouse experiments on the use of 2, 4-dichlorophenoxyacetic acid and 2, 4, 5-trichlorophenoxyacetic acid to increase storage life of lemons. Proc. amer. Soc. hortic. Sci. 59. 1952, 327—334.

Stoll, K., Die Reinigung und Desinfektion der Keller, Obstlagerräume und Harasse. Schweiz. Ztschr. Obst-, Weinbau 61. 1952, 511—514, 1 Abb.

Stoll, K., und **Klinkowski, M.,** Möglichkeiten der Verhütung von Lagerungsverlusten der Zwiebel auf züchterischem Wege. Dtsch. Landw. 3. 1952, 467—469.

Strickland, A. G., Diphenyl wraps. Citrus News, Melbourne, 27. 1952, 114.

Tindale, G. B., Citrus storage. Citrus News, Melbourne, 27. 1952, 161.

Vahl, E. v., Früchte rechtzeitig kontrollieren, um Überlagerung zu vermeiden! Mitt. Mitgl. Obstbauvers.ring Altes Land usw., Jork, 7. 1952, 90—91, 5 Abb.

Van Doren, A., The storage of Golden Delicious and Red Delicious apples in modified atmospheres. Proc. 48th Ann. Meetg. Washington State hortic. Assoc. 1952, 91—95.

Weibull, G., The cold storage of vegetable seed and its significance for plant breeding and the seed trade. Agri hort. genet., Landskrona, 10. 1952, 97—104.

Wolf, J., Kernobst länger haltbar! Probleme und neue Verfahren in der Kaltlagerung. Umschau 52. 1952, 203—205, 9 Abb.

Young, W. J., and **Beneke, E. S.,** Treatment to prevent fruit storage rots. Phytopathology 42. 1952, 24 (Abstr.).

Zecha, E., Richtlinien für die Einlagerung und Behandlung des Winterobstes. Obst-, u. Gartenbau, Stuttgart, 7. 1952, 164—166, 3 Abb; 182—183.

Bildung roter Flecken an Äpfeln. [Sonneneinwirkung] Schweiz. Ztschr. Obst-, Weinbau 61. 1952, 446.

Kampf dem Spät- und Lagerschorf. Schweiz. Ztschr. Obst,- Weinbau 61. 1952, 276.

Mechanische Beschädigungen an Äpfeln. Ihre Ursachen und Möglichkeiten der Verhinderung. Zentralbl. dtsch. Erwerbsgartenbau 4. 1952, Nr. 49, S. 1, 3.

Obst sorgsam und sachgemäß einlagern! Obstbau 71. 1952, 149—150, 5 Abb.

f. Tabak
Tobacco — Tabac

Cuzin, J., Rey, P., e **Schwartz, D.,** Le muffe del tabacco. Studio qualitativo. (Tobacco moulds. Qualitative and quantitative study.) Tabacco, Roma, 56. 1952, 163—177.

Matveenko, T. M., (Utilization of DDT dusts and suspensions for controlling pests of tobacco raw material in storehouses.) Tabak 13. 1952, 41—43.

Molinari, E., Über Schädlinge in Tabaklagern und ihre Bekämpfung. Fachl. Mitt. österr. Tabakregie 1952, H. 2, S. 9—13.

Oberthür, K., Die Tabakschädlinge Lasioderma serricorne F. und Ephestia elutella Hb. Nachrbl.. dtsch. Pfl.schutzd., Berlin, NF. 6. 1952, 61—67, 9 Abb.

Tenhet, J. N., and **Bare, C. O.,** Lindane as an insecticide to control tobacco moth and cigarette beetle. J. econ. Ent. 45. 1952, 218—222.

g. Holz und Papier
Wood and paper
Bois d'œuvre et papier

(Siehe auch — see also — voyez aussi p. 257.)

Alliot, H., Le taret et les animaux marins destructeurs du bois. Rev. Bois, Paris, 7. 1952, nr. 2, p. 3—8.

Ashbaugh, F. A., Relation between quality and pole service life. Proc. amer. Wood Preserv. Assoc. 48. 1952, 328—334.

Barker, W. J., Stewart, G. H., Nettles, W. C., and **Dunkelberg, G. H.,** Longer life for fence posts. Clemson agric. Coll. (South Carolina) Ext. Circ. 262 (rev.). 1952, 15 p.

Bavendamm, W., Pflanzliche Holzschädlinge. Merulius lacrymans (Wulf.) Schum. ex Fries. Coniophora cerebella (Pers.) Duby. Poria vaporaria (Pers.) Fr. Lenzites abietina (Bull.) Fr. Holz als Roh-, Werkstoff 9. 1951, 251—252, 4 Abb.; 447—448, 4 Abb.; 10. 1952, 39—40, 4 Abb.; 261—262, 4 Abb.

Bavendamm, W., und **Bellmann, H.,** U-Salze, Holzschutzmittel. Holz als Roh-, Werkstoff 10. 1952, 375—378.

Becker, G., Holzschutz gegen Insekten in Deutschland. Trans. IXth int. Congr. Ent., Amsterdam, 1 (1951). 1952, 723—727.

Becker, G., Über Holzschutz in Gebäuden und einige seiner Anwendungsschwierigkeiten. Schädlingsbekämpfung 44. 1952, 80—83.

Becker, G., Untersuchungen über die Schutzwirkung von Pentachlorphenol gegen holzzerstörende Insekten. Holz als Roh-, Werkstoff 10. 1952, 341—352.

Behr, E. A., Wood preservation and the PCO. I—II. Pest Control, Ohio, 20. 1952, nr. 9, p. 23—24, 26; nr. 10, p. 40, 42, 46.

Bennett, R. G., and **Binns, E. J.,** The preservation of wooden transmission poles. Wood Preserv. News, Chicago, 30. 1952, 30—34.

Benson, D. D., An analysis of deterioration in farm structures. J. Forestry 50. 1952, 559 (Abstr.).

Bletchly, J. D., A summary of some recent work on the factors affecting egg-laying and hatching in Anobium punctatum de G. (Coleoptera-Anobiidae). Trans. IXth int. Congr. Ent., Amsterdam, 1 (1951). 1952, 728—734, 2 fig.

Blew, J. O., and **Champion, F. J.,** Preservative treatment of fence posts and farm timbers. US Dept. Agric. Farmers' Bull. nr. 2049. 1952, 33 p., 9 fig.

Borg, J., (Preservation of fence posts.) Mjölkpropagandan (Sverige) 29. 1952, 107.

Boulton, E. H. B., The identification and treatment of defects in timber. Part II. Estate Mag., London, 42. 1952, 109—111.

Brauns, A., Zur Lebensweise des »großen schwarzen Wurmes«. Norddtsch. Holzw. 6. 1952, nr. 16, S. 6.

Brooke, E. H. B., The identification and treatment of defects in timber. Timber News (Engl.) 60. 1952, 72—73.

Butowitsch, W., Erhebungen über das Vorkommen und den Schaden der Holzschädlinge in Wohnhäusern in Südschweden. Ztschr. angew. Ent. 33. 1952, 172—186.

Butowitsch, W., (Untersuchungen über die Ausbreitung und den Schaden der holzzerstörenden Insekten in Wohnhäusern in den Provinzen Blekinge und Kalmar (Südschweden).) Mitt. forstl. Forsch.anst. Schwed. 40. 1952, Nr. 5, 39 S., 1 Karte.

Carayon, J., Des dégâts provoqués par les termites à Paris. Feuille Naturalistes (France) 7. (n. s.) 1952, 91—92.

Carr, D. R., The preservation of timber for light building construction. Austr. Timber J. 18. 1952, 350, 353 (Extr.).

Chanmamedow, K. M., Opredelenie wlashnosti propitannoj drewesiny. (Bestimmung des Feuchtigkeitsgehalts getränkten Holzes.) Lesnaja Prom. (russ.) 12. 1952, 31—32.

Clymer, C. L., Treated fence posts. Oklahoma agric. Exp. Stat. Circ. 541. 1952, 16 p., 7 fig.

Colleary, M. J., The preservative treatment of fence-posts by non-pressure processes. Canad. Dept. Resourc., Developm. Bull. 107. 1952, 28 p., 7 tab.

Cook, G. V., Treated lumber. South. Lumber J. (Florida) 56. 1952, nr. 9, p. 20, 99—100.

Cope, J. D., Dry rot in buildings. Housecraft (Engl.) 25. 1952, 130—131.

Dahms, W. G., Service life of treated and untreated fence posts on the Pringle Falls Experimental Forest. US Forest Serv., Pacific. Northwest Forest, Range Exp. Stat., Res. Note 80. 1952, 3 p.

Daimler, K., Bemerkenswertes zum neuen Holzschutzmittel-Verzeichnis hinsichtlich der Feuerschutzmittel. Holz, Berlin, 6. 1952, 218—219.

Dale, F. A., A new form of preservative treatment for round poles. Forest Prod. News Letter nr. 190. 1952, 7, 1 fig.

Dallas-Cope, J., Keep your timber dry. [timber decay in old buildings] Milk Ind., London, 32. 1952, nr. 8, p. 77—80.

Dallas-Cope, J., The menace of dry rot. [Merulius lacrymans] Milk Ind., London, 32. 1952, nr. 7, p. 80—83.

Dallas-Cope, J., Preservation of wood. 2. Milk Ind., London, 33. 1952, 89—91.

Dallas-Cope, J., The worm in the wood. [wood-destroying insects] Milk Ind., London, 32. 1952, nr. 9, p. 83—87.

Darwin, W. N., A coordinated program of research in wooden fence post treatment. Proc. Assoc. south. agric. Workers 49. 1952, 24 (Abstr.).

Dehn, U. v., Verfahrenstechnik zur Schnittholzimprägnierung in den nordischen Ländern. Int. Holzmarkt 43. 1952, nr. 15, p. 11—12.

De Rancourt, E., La préservation des ouvrages d'art en bois. Rev. int. Prod. colon., Paris, 27. 1952, 182—184.

Dixon, R. D., Needed, a simple, effective wood preserving process. Forest Farmer 12. 1952, 6.

Dölger, F. W., Holzschutz im Wasserbau. Holz 6. 1952, 40—41.

Dölger, F. W., Individuelle Tiefkonservierung von Bau- und Freilandhölzern. Holz, Bearbeit., Vergüt., Schutz 6. 1952, 230—231, 6 Abb.

Duchaine, W. J., Longer life for crossties. Brit. Columbia Lumbermann, Vancouver, 36. 1952, nr. 2, p. 70—72.

Duncan, C. G., Evaluating wood preservatives by soil-block tests: 5. Lignite tar and oil-tar creosotes. Proc. amer. Wood Preserv. Assoc. 48. 1952, 99—106, 2 fig.

Emsweller, S. L., Lumsden, D. V., and **Blew, J. O.,** Wood preservatives; tests reveal that copper naphthenate and celcure prolong life of flats. Florists' Rev., Chicago, 110. 1952, nr. 2839, p. 23—24.

Finholt, R. W., Weeks, M., and **Hathaway, C.,** New theory on wood preservation. Ind., engin. Chem. 44. 1952, 101—105, 3 fig.

Fisher, R. C., Some aspects of the biology of timber insects. Sci. Progr., London, 40. 1952, 213—232.

Foss, W. M., Boring from within (and without); insects that attack both down and standing timber. New York State Conservationist 6. 1952, nr. 5, p. 22—23.

Freeman, J. A., The inter-relation of insect attack on stored food and on wood. Trans. IXth int. Congr. Ent., Amsterdam, 1 (1951). 1952, 719—722, 1 fig.

Gadd, G. O., (Beobachtungen über die Pilzentwicklung in der Fasermasse und eine Methode, um die dadurch verursachten Schäden zu schätzen.) Paperi ja Puu, Helsinki, 34, 1952, 129/136.

Gefahrt, J., Hochfrequenzerwärmung in der Holzindustrie. Holz, Bearbeit., Vergüt., Schutz 6. 1952, 96—97, 125—126, 142—144, 170—171, 19 Abb., 4 Tab.

Gerland, Wie lassen sich Wissenschaft und Baupraxis auf dem Gebiete des Holzschutzes erfolgreich verbinden? Holz, Berlin, 6. 1952, 222—224 (Auszug).

Gilles, F., Le bois et le feu. Bois et Scieries (France) 58. 1952, 202—203.

Glennie, D. W., and **Schwartz, H.,** Pulpwood decay: effect on yield and quality. Pap. Ind., Chicago, 34. 1952, 738—740.

Graefenhan, R., Der Hausbockkäfer, eine besondere Gefahr für Siedlungshäuser. Kleingärtner u. Siedler 6. 1952, 87.

Griffioen, K., Ein Versuch mit imprägnierten Schwellen in einem indonesischen Bahngleis. Tectona, Semarang, 41. 1952, nr. 3/4, 157—178.

Groschke, F., Der schwarze Nutzholzborkenkäfer, Xylosandrus germanus Blandf., ein in Deutschland neu eingeschleppter Schädling. Inst. angew. Zool., München, Merkbl. Okt. 1952, 4 S., 15 Abb.

Hamilton, L. S., Pole structures — that last. Hoard's Dairyman 97. 1952, 422—423.

Harmsen, L., Merulius tignicola sp. nov. og dens forekomst i Danmark. (Merulius tignicola n. sp. and its occurrence in Denmark.) Friesia, København, 4. 1952, 243—256, 13 fig., 1 tab. geogr.

Harris, W. V., A note on wood preservations for termite control. East afr. agric. J. 17. 1952, 109—110.

Harrow, K. M., Impregnation of Pinus radiata D. Don building timber with boric acid by diffusion. New Zealand J. Sci., Technol. (B) 33. 1952, 471—482.

Harrow, K. M., and **Thompson, H. R.,** Impregnation of tawa (Beilschmiedia tawa Benth. and Hook. f.) with boric acid by diffusion. III. Sampling of timber treated with boric acid. New Zealand J. Sci., Technol. (B) 33. 1952, 385—392, 1 fig.

Haynes, D. L., Can vapor drying make small clears more economical to handle? Wood, Chicago, 57. 1952, 30, 44, 53, 1 fig.

Henrard, P., Étude préliminaire de la faune entomologique et de la protection des bois exploités au Mayumbe. Bull. agric. Congo Belge 43. 1952, 463—480.

Hespeler, O., Auftreten und Bekämpfung des Hausbocks. Trans. IXth int. Congr. Ent., Amsterdam, 1 (1951). 1952, 715—718.

Hespeler, O., Vorbeugung gegen Termitenbefall. Trans. IXth int. Congr. Ent., Amsterdam, 1 (1951). 1952, 999—1004.

Hochkirch, P., Holzschutz im Freileitungsnetz. Techn. Verl.anst. E. Klett, Erlangen—Berlin 1952, 60 S., 12 Abb.

Höpner, T., Pilzschäden am Zellstoffholz. Papier, Darmstadt, 6. 1952, 47—53, 15 fig.

Hof, T., Aantasting van hout door schimmels. (Angriffe auf Holz durch Pilze.) Houtinstitut (Nederland) 1952, 29 p.

Hof, T., Het optreden van blauw in hout. (The occurrence of blue stain in wood.) Houtinst. TNOC 16. 1952, 19 p.

Hubert, E. E., The use of fire retardants in a penta fence post preservative. Idaho Univ. Forest, Range, Wildlife Exp. Stat. Res. Notes 2. 1952, 7 p.

Huddleston, E. B., Preserving timber buildings on the farm. Queensland Fruit, Veg. News 2. 1952, nr. 43, p. 9—10.

Hudson, M. S., Recovery of solvent from pressure treated lumber produces paintable product. Proc. Assoc. south. agric. Workers 49. 1952, 90—91 (Abstr.).

Hufnagl, H., Die Sägewerke als Zucht- oder Vernichtungsstätte des achtzähnigen Fichtenborkenkäfers. Allg. Forstztg., Wien, 63. 1952, 78—79.

Hunt, G. M., Avoid decay and termite damage by good house construction. Progr. Architect. 33. 1952, nr. 12, p. 92—95.

Hunt, G. M., Holzkonservierung. Verfahren zur Verlängerung der Lebensdauer von Bauholz und anderen Holzprodukten, durch die deren Widerstandsfähigkeit gegen Fäulnis und gegen die zerstörende Tätigkeit von Insekten und Pilzen erhöht wird. Int. Holzmarkt, Wien, 43. 1952, 30—32.

Immonen, V., (Use and sales of impregnated timber at timber yards.) Paperi ja Puu, Helsinki, 34. 1952, 373—376.

Inoue, Y., and **Kuroki, Y.,** Wood preservatives. VII. The efficiency of the wood preservatives with chlorinated pine-root oil. Mokuzai Kenkyu (Wood Res.) 8. 1952, 74—82.

Jacquiot, C., Progrès récents dans la lutte contre les insectes des bois mis en œuvre. Rev. forest. France, Paris, 7/8. 1952, 515—517.

Jensen, W., Institutet för träkemi vis Åbo Akademi Verksamheten 1951—52. (Die Tätigkeit des Instituts für Holzchemie an der Åbo-Akademie 1951—52.) Paperi ja Puu, Helsinki, 34, 1952, 157—159.

Johnson, R. A., Preservation research on harbour structures. I, II, and III. [coal-tar creosote, copper salts, pentachlorophenol] Commonw. Eng. (Australia) 1952, 24 p., 9 fig.

Kilroe-Smith, T. A., The chemical aspects of preservation of mine timbers, with special reference to copper sulphate-sodium bichromate mixtures. South afr. ind. Chem., Johannesburg, 6. 1952, 178—180.

König, E., Die chemische Waffe im Kampf gegen Holzzerstörer. Norddtsch. Holzw. 6. 1952, nr. 9, p. 6—7.

Kotthoff, Der Hausschwamm. Landw. Wochenbl. Westf., Lippe 109 A. 1952, 1346, 3 Abb.

Kowalik, R., Microörganisms destroying paper in polish archives. Med. dośw. mikrobiol. (Polska) 4. 1952, 359—360.

Kurir, A., Holzinsekten — Holzschutz. 8. Sägehörniger Bohrkäfer (Hylecoetus dermestoides), nutzholzentwertender Schädling auf Sägewerken. Allg. Holzrundschau 8. 1952, 15—16.

Kurir, A., Holzinsekten — Holzschutz: Hausbockkäfer (Hylotrupes bajulus), Düsterbock (Asenum striatum), Grubenhalsbock (Criocephalus rusticus), Blauer Scheibenbock (Callidium violaceum). Allg. Holzrundschau 8. 1952, 5 S., 11 Abb.

Livingston, K. W., The effects of species, diameter, and density of wood on absorption of an oil solution of pentachlorophenol by fence posts with the cold-soaking method. J. Alabama Acad. Sci. 21/22. 1952, 43—45.

Lohwag, K., Der Hausschwamm Gyrophana lacrymans (Wulf.) Pat. und seine Begleiter. Sydowia, Ann. mycol., 6. 1952, 268—283.

Mack, G. W., and **Savory, J. G.,** A new treatment for walls infected with dry rot. [Merulius lacrymans] Builder, London, 782. 1952, nr. 5706, p. 975—977, 2 fig.

MacLean, J. D., Preservative treatment of wood by pressure methods. Agric. Handb. (US Dept. Agric.) 40. 1952, IV+160 p., 48 fig.

McNeal, X., Tests of fence post preservatives. Arkansas agric. Exp. Stat. Bull. nr. 519. 1952, 23 p.

McNeil, D., Creosote for wood preservation. Chemical composition and efficiency. Chem. Trade J., Manchester, 130. 1952, 1517—1518.

Madel, W., Schädlinge im Bauholz. Zusammenstellung der für die Baupraxis wichtigen tierischen Holzschädlinge. O. Elsner Verl.ges., Darmstadt 1952. 4., erw. Aufl., 108 S., 117 Abb.

Mann, R. H., 54-year-old creosoted pine poles free from decay and in excellent condition. Wood Preserv. News. 30 1952, 113—117.

Marsden, D. H., Preparation of slide-mounts to study distribution of preservative material in wood. Phytopathology 42. 1952, 300. 1 fig.

Mawatari, Sh., and **Kobayashi, S.,** An unusual occurrence of marine borers in Yokohama Harbor. [Teredo navalis in timber pool] Misc. Repts. Res. Inst. nat. Resources, Tokyo, nr. 26. 1952, 60—66, 5 fig.

Meagher, G., Annual service records of wood posts used in New Mexico an the Southwest. New Mexico Stockmann 17. 1952, 74, 76.

Meteer, J. W., and **Sarles, R. L.,** Cold soaking helps utilize non-durable woods to make good fence posts. Farm, Home Res., Wooster (Ohio), 37. 1952, nr. 276, p. 39—40, 42—43.

Meyer, F. J., and **Gooch, R. M.,** Copper 3-phenylsalicylate. New preservative for special applications to wood. Ind., engin Chem. 44. 1952, 1586—1598, 2 fig.

Meyer, F. J., and **Gooch, R. M.,** Pentachlorophenol grease for preserving poles. Electr. Light, Power, London, 30. 1952, nr. 8, p. 108—111.

Moore, R. R., Treating fence posts for long life. Utah State agr. Coll. Ext. Fact Sheet 14. 1952, 4 p.

Mueller, L. A., Better posts for less. Arizona Farmer 21. 1952, nr. 25, p. 1, 44—45.

Nuckols, L. T., Diversified uses of treated wood on railroads. Proc. amer. Wood Preserv. Assoc. 48. 1952, 282—287. — Wood Preserv. News, Chicago, 30. 1952, 65—68.

Perilä, O., ja **Seppälä, E.,** Pakuritäävän vaikutuksesta Koivupuuhun sekä tästä valmistetun sulfiitiselluloosan paperiteknillisiin ominaisuuksiin. (The effect of the black tinder fungus on birch wood and the paper-making properties of the sulphite pulp.) Paperi ja Puu, Helsinki, 34. 1952, 359—365, 14 fig.

Peyer, E., und **Huber, H.,** Die Imprägnierung von Rebstecken. Schweiz. Ztschr. Obst-, Weinbau 61. 1952, 514—517, 2 Abb.

Peyresaubes, R., Evolution de la traverse en bois injecte. Rev. int. Bois, Paris, 19. 1952, nr. 170, p. 3, 5—6.

Purushotham, A., and **Jain, J. C.,** Protection of timber, grasses and textiles against fire. Indian Forester, Dehra Dun, 78. 1952, 299—300.

Rabbage, L. H., Use of pressure treated wood in New York city's waterfront structures. Proc. amer. Wood Preserv. Assoc. 48. 1952, 288—300.

Rennerfelt, E., Massaindustrins virkesvårds-problem. (The wood storage problem of the pulp industry.) [Stereum sanguinolentum, Lentinus lepideus, Lenzites sepiarua, Trametes serialis] Svensk Pappers tidn. 55. 1952, 609—612, 3 fig.

Rennerfelt, E., och **Starkenberg, B.,** Träskyddskommitténs fält- och rötkammarförsök. Redogörelse Nr. II. (Field and decay-chamber experiments with wood preservatives. Meddel. Stat. Skogsforskn. inst. (Mitt. forstl. Forsch.anst.), Stockholm, 40. 1952, nr. 4, 13 p., 4 fig.

Richards, A. P., Preliminary progress report on marine exposure panels. Proc. amer. Wood Preserv.' Assoc. 48. 1952, 15—26.

Ross, D. S., Protection against marine termites. Fishing Gaz., London, 69. 1952, nr. 6, p. 42, 44, 47.

Rothwell, W., Preservation of railway sleepers. Austr. Timber J. 18. 1952, 189, 191, 193, 195—196, 198, 201.

Sandermann, W., und **Jonas, G. Z.,** Über die Imprägnierung von Hölzern mit öligen Schutzmitteln, unter besonderer Berücksichtigung der Fichte. Holz als Roh-, Werkstoff 10. 1952, 305—311.

Schmidt, H., Anobium punctatum De Geer. Holz als Roh-, Werkstoff 10. 1952, 119—120.

Schmidt, H., Holzhandel und Schädlingsberatungsdienst. Holz-Zentralbl. 78. 1952, 486.

Scholles, W., Erfahrungen und Fingerzeige für eine wirkungsvolle Holzimprägnierung gegen Termiten. Holz, Berlin, 6. 1952, 43—45.

Scholles, W., Grundlagen des chemischen Holzschutzes im Hochbau. DESOWAG (Chemie-Ges. mbH) Düsseldorf, 1952, 24 S., 13 Abb.

Schröder, G., Ein gefährlicher Mitbewohner. Kampf dem Hausbock. [Hylotrupes bajulus] Bauernbl. Schlesw.-Holst. 6./102. 1952, 550—552, 3 Abb.

Schröder, G., Kampf dem Hausbock (Hylotrupes bajulus)! Reich der Landfrau 10. 1952, 78.

Severin, H. C., An unusual infestation of wood cockroaches. J. econ. Ent. 45. 1952, 1079.

Smart, M. E., Timber research in this country. J. R. Inst. chartered Surveyors 32. 1952, 252—258.

Smith, M. K., Termite control in slab-type construction. Pest Control, Ohio, 20. 1952, nr. 2, p. 9—10, 12.

Sorsa, B., (The effects of some wood preservatives on gluing.) Paperi ja Puu, Helsinki, 34. 1952, 28—30.

Southam, Ch. M., and **Ehrlich, J.,** Etiology of some sap rots of western red cedar poles. Phytopathology 40. 1950, 439—444.

Spiller, D., A note on the toxicity of boric acid to larvae of the two-toothed longhorn Ambeodontus tristis F. New Zealand J. Sci., Technol. (B) 33. 1952, 493—494, 1 fig.

Spiller, D., Preliminary experiments on control of infestations of the common house borer Anobium punctatum de Geer. R. Soc. New Zealand sci. Congr. Rept. 7 (1951). 1952, 96 (Abstr.).

Spiller, D., A study on control of infestations of the common house borer Anobium punctatum De Geer. Part I. — Results for the period 1944—51. New Zealand J. Sci., Technol. (B) 33. 1952, 447—459, 2 fig.

Stacey, W. A., Old pile trestles on Rock Island lines. Wood Preserv. News, Chicago, 30. 1952, 72—73, 82.

Stacey, W. A., Protect pile cut-offs. Wood Preserv. News, Chicago, 30. 1952, 23—25, 34, 35.

Steer, H. B., Home remedy for wood rot. Amer. Forests 58. 1952, nr. 5, p. 17.

Steer, H. B., Wood preservations statistics, 1951. Proc. amer. Wood Preserv.' Assoc. 48. 1952, 363—404.

Stumpp, K., Zur Anwendung chemischer Feuerschutzmittel. Holz, Berlin, 6. 1952, 39—40.

Technau, G., Holzschädlinge in Möbeln, ihre Lebensweise und Bekämpfung. Holz, Bearbeit., Vergüt., Schutz 6. 1952, 126—128.

Theden, G., Erfahrungen über holzzerstörende Pilze in Berlin. Schädlingsbekämpfung 44. 1952, 77—80.

Thiesmeyer, L. R., Plane converted into »fire engine«; paper bags of water dropped on woods blazes. Pap. Trade J. (Techn Sect.) 134. 1952, nr. 8, p. 167 (Abstr.).

Thunell, B., Einwirkung der Bläue auf die Festigkeitseigenschaften der Kiefer. Holz als Roh-, Werkstoff 10. 1952, 362—365.

Verrall, A. F., Control of wood decay in buildings. Agric. Engin. 33. 1952, 217—219.

Wang, S. F., A comparative test on the decay durability of timbers treated by seven kinds of oil.) Taiwan Forest Res. Inst. Bull. 31. 1952, 15 p.

Weidner, H., Die Ausbreitung der Termite Reticulitermes flavipes (Kollar) in Hamburg. Trans. IXth int. Congr. Ent., Amsterdam, 1 (1951). 1952, 829—832.

Wright, E., Sapstain und decay control tests. Timberman (Oregon) 53. 1952, 140—142.

Wünsche, M., Schwamm im Haus. Erkennen, Verhüten und Bekämpfen des Hausschwamms und anderer holzzerstörender Pilze mit besonderer Berücksichtigung der Rechtsfragen. Deutscher Verlag, Berlin 1952. 180 S., 25 Abb., 8 Taf.

Zimmermann, W. A., Holzfeuchtigkeit und Schutzmittelbehandlung bei Bauhölzern. Holz, Berlin, 6. 1952, 37—38.

Zoberst, W., Die physiologischen Bedingungen der Pigmentbildung von Merulius lacrymans domesticus Falck. Arch. Mikrobiol. 18. 1952, 1—32.

Zobrist, L., und Deffner, U., Neue Holzschutzmittel für den Gärtner. Schweiz. Gärtnerztg. 55. 1952, Nr. 6, S. 3—4.

Zycha, H., Die Bewertung pilzhemmender Eigenschaften von Grundieranstrichen. Holz als Roh-, Werkstoff 10. 1952, 41—43, 6 Abb.

Zycha, H., Der Schutzanstrich für lagerndes Buchenholz. Holz-Zentbl. 78. 1952, 1865—1866.

Amerikanische Versicherung gegen Termitenschäden. Anz. Schädl.kunde 25. 1952. 64.

Die **außen blanke Kiefernschnittware ist innen verbläut.** Norddtsch. Holzw. 6. 1952, Nr. 37, S. 1—2.

Bescherming van hout tegen bederf. Tuinbouwgids, Den Haag, 1952, 261.

La **chimie devant le bois**: les produits de préservation à l'Exposition Internationale du Bois de Lyon. Rev. Bois, Paris, 7. 1952, 15—16.

Fast, controlled lumber treating with vacuum. Wood, Chicago, 57. 1952, 25, fig.

Der Hausbock (Hylotrupes bajulus L.). Xylamon-Nachr. 11. 1952, Nr. 2, S. 2—4, 8 Abb.

Hausbockschäden, wie bekämpfen — wie verhüten? Xylamon-Nachr. 11. 1952, Nr. 2, S. 6—8, 2 Abb.

Holzschutz für Freibauten. Xylamon-Nachr. 11. 1952, Nr. 1, S. 2—5, 8 Abb.

The **kiln sterilization** of Lyctus-infested timber. Dept. sci., ind. Res., Forest Prod. Res. Lab., Princes Risborough, Aylesbury, Leafl. 13 (rev.). 1952, 4 p.

Preservative treatments for timber used in buildings. Brit. Stand. Code CP 110. 112. 1952, 20 p.

Preventive protection of seasoned timber. Soc. Xylochimie, Export Dept., Paris 1952 (?), 4 p.

Richtlinien für die Holzsschutzbehandlung im Schiffs- und Bootsbau. Xylamon-Nachr. 11. 1952, Nr. 1, S. 5—6, 3 Abb.

A **rual industry** starts to grow. [fence post preservation] Virginia econ. Rev. 5. 1952, nr. 4, p. 1—5.

Le **taret et les animaux marins** destructeurs du bois. Rev. Bois, Paris, 7. 1952, 3—8.

Über Holzschädlinge in südschwedischen Wohnhäusern. Schädlingsbekämpfung 44. 1952, 158.

Ursachen der Hausbock-Massenvermehrung. Erkennung des Hausbockbefalles. Xylamon-Nachr. 11. 1952, Nr. 2, S. 4—6, 9 Abb.

Verwendung von Ultraschall zur Schädlingsbekämpfung an Nutzholz. Mühle 89. 1952, 165.

Why creosote protects wood today every bit as well as fifty years ago. Koppers Products Comp., Tar Prod. Div., Pittsburg 1952, 11 p.

Xylamon auch für feuchtes Holz? Xylamon-Nachr. 11. 1952, Nr. 1, S. 6—11, 13 Abb.

Xylamon — LX — Hell bewahrt weltbekannte Kunstwerke vor dem Befall. Xylamon-Nachr. 11. 1952, Nr. 2, S. 10—11, 5 Abb.

h. Textilien
Textiles — Textiles

Chatterjee, H., and **Pal, K. B.,** Rotproofing jute textiles. Text. Manufact., Manchester, 78. 1952, 228—231, 1 fig.

Cleu, H., Les fibre de soies végétales attaquées par Dermestes lardarius L. (Col. Dermestidae). Bull. Soc. ent. France 57. 1952, 143—144.

Dias, A. R., Insecticides in textile industry. Indian Text. J. 62. 1952, 421, 432.

Gaddis, C., and **Crom, B.,** Controlling moths and carpet beetles. [Anthrenus scrophulariae] US Dept. Agric., Off. Inform., Washington 1952. 3 p.

Hase, A., Dauerwollschutz durch Eulane auf Grund 30jähriger Erfahrungen. Trans. IXth int. Congr. Ent., Amsterdam, 1 (1951). 1952, 885—888, 1 Abb.

Huddle, H. B., and **Mills, A. P.,** The toxity of cedar oil vapor to clothes moths. J. econ. Ent. 45. 1952, 40—43.

Laibach, E., Motten und Mottenschutz. Melliand Textilber. 33. 1952, 324—327.

Lamb, K. P., Two braconid parasites of clothes moths. New Zealand Entomologist 1. 1952, nr. 2, p 8—9.

Leonard, R. B., Hog rings simplify care of kapok sleepingbags. Fire Control Notes, Washington, 13. 1952, 34—35.

Meeuse, A. D. J., On the origin of clothes moths, carpet beetles and similar household pests. Beaufortia (Nederland) 15. 1952, 8 p.

Moncrieff, R. W., Mothproofing. Hill, Ltd., London 1952, XIII + 200 p., 29 fig.

Pauli, O., Textilkonservierung. Chem.-Ing.-Techn., Weinheim, 24. 1952, 226—227.

Purushotham, A., and **Jain, J. C.,** Protection of timber, grasses and textiles against fire. Indian Forester, Dehra Dun, 78. 1952, 299—300.

Rawle, S. G., The effects of high temperature on the common clothes moth, Tineola bisselliella (Humm.). Bull. ent. Res. 42. 1952, 29—40, 4 fig., 2 tab.

Roth, L. M., and **Willis, E. R.,** Observations on the behavior of the webbing clothes moth. J. econ. Ent. 45. 1952, 20—25, 1 fig.

Van Horn, W. M., Testing insect resistance. [of fibrous packaging materials] Fibre Containers, Chicago, 37. 1952, 60, 62.

Wichmand, H., (Moth control.) Tidsskr. Husholdning (Danmark) 27. 1948, 136.

Williams, A. E., The preservation of textiles. The use of metallic naphthenates. Indian Text. J. 62. 1952, 549—552, 576.

Notes on mildew and micro-organisms in textiles. Text. Manufact., Manchester, 78. 1952, 422—424.

i. Varia

Archer, W. A., Aerosol for controlling herbarium pests. Science, Lancaster, 116. 1952, 233—234.

Liebig, A. W., Die Bekämpfung der Kakaomotte [Ephestia elutella] und anderer Schädlinge in der Schokoladen- und Süßwaren-Industrie. Zucker-, Süßwaren-Wirtsch. 5. 1952, 295—296.

Post, K., and **Fischer jr., C. W.,** The commercial storage of cut flowers. Cornell Ext. Bull. 853. 1952, 14 p., 9 fig.

Sebelin, C., Zum Auftreten von Araecerus fasciculatus de G. in Hamburg. Jahresber. Forsch.-Inst. Kakaow. 1951. 1952, 16.

Zur Bekämpfung der Korkmotte und des Korkwurms. Schweiz. Ztschr. Obst-, Weinbau 61. 1952, 280.

12. Krankheiten nicht kultivierter Pflanzen und der Kryptogamen
Diseases of uncultivated plants and cryptogams
Maladies des plantes non cultivées et des cryptogames

Beck, E. G., A comparison of two stem galls on Solidago induced by the larvae of two different lepidopterous insects. [Gnorimoschema gallaesolidaginis, Eucosma scudderiana] J. Tennessee Acad. Sci. 27. 1952, 200.

Bels-Koning, H. C., en **de Jong-Olthof, K.,** Bruine vlekken op champignons ten gevolge van aantasting door Pseudomonas Tolaasi Paine. (A brown blotch disease of cultivated mushrooms caused by Pseudomonas Tolaasi Paine.) Tijdschr. Plantenziekten 58. 1952, 243—246, 3 fig.

Benick, L., Pilzkäfer und Käferpilze. Ökologische und statistische Untersuchungen. Acta zool. fenn. 70. 1952, 250 p., 8 fig.

Biebl, R., Resistenz der Meeresalgen gegen sichtbares Licht und gegen kurzwellige UV-Strahlen. Protoplasma 41. 1952, 353—377.

Blondel, B., Résistance et sensibilité aux sulfamidés d'algues unicellulaires. Arch. Sci., Genève, 5. 1952, 121—173.

Bond, T. E. T., Septoria armeriae Allesch., the cause of a leaf-spot disease of »bees ruby« Armeria. Trans. brit. mycol. Soc. 35. 1952, 81—90, 4 fig.

Cairns, E. J., Nematode diseases and their control in mushroom crops. Phytopathology 42. 1952, 4 (Abstr.).

Čeljadinowa, A. J., und **Naumowa, A. N.,** (Die Krankheit der Sichelmöhre (Falcaria sivini) bei Störung der Symbiose mit der Wurzelmikroflora.) Dokl. Vsesoiuzn. Akad. Sel'skohoz. Nauk im. V. I. Lenina (Proc. Lenin Acad. agric. Sci.) 18. 1952, nr. 11, p. 29—33.

De Francquen, P., Essai de lutte contre le »Shimbu«. Trans. IXth int. Congr. Ent., Amsterdam, 1 (1951). 1952, 751—756, 2 tab.

Easton, A. M., A review of the Meligethes (Col. Nitidulidae) associated with the labiate Marrubium vulgare L. Including the description of a new species. Bull. Soc. Sci. naturelles Maroc, Rabat, 32. 1952, 181—192, 22 fig.

Farinha, M., and **Rosado, J. M.,** Morphological, anatomical and cultural characters of Polyporus ulicis Boud. [on Ulex europaeus] Bol. Soc. brot., Coimbra, 26 (ser. 2). 1952, 193—201, 2 fig.

Friedmann, I., Über neue und wenig bekannte auf Diatomeen parasitierende Phycomyceten. Österr. bot. Ztschr. 99. 1952, 173—219.

Fromm, F., and **O'Donnel, M. L.,** The influence of p-aminobenzoic acid on growth of duck-weed. [Lemna minor] Proc. Pennsylv. Acad. Sci. 24. 1952, 50—53.

Gilman, J. C., and **Tiffany, L. H.,** Fungicolous fungi from Iowa. Proc. Iowa Acad. Sci. 59. 1952, 99—110, 18 fig.

Green, J., Sclerotium rolfsii on Polypodium scandens. Austr. Plant Dis. Recorder 4. 1952, 23.

Gupta, S. C., An abnormal feature in the life-cycle of Uromyces proeminens (DC) Lev. on Euphorbia hypericifolia L. Curr. Sci., Bangalore, 21. 1952, 348.

Guyot, A. L., et **Massenot, M.,** Les rouilles [Puccinia] des Teucrium. Ber. schweiz. bot. Ges. 62. 1952, 429—475.

Hutchings, S. S., Snout moth [Pyralidae] damage to shadscale [Atriplex canescens] in southern Idaho. Nat. Wool Grower, Salt Lake City, 42. 1952, nr. 7, p. 24—25, 38.

Jones, E. W., Some observations on the lichen flora of tree boles, with special reference to the effect of smoke. Rev. bryol., lichenol., Paris, 21 (n. ser.). 1952, 96—115.

Kuhnholtz-Lordat, G., La rouille [Puccinia cervariae] du Peucedanum cervaria (L.) la Peyrouse. Ber. schweiz. bot. Ges. 62. 1952, 258—264.

Lambert, E. B., and **Ayers, T. T.,** An improved system of mushroom culture for better control of diseases. Plant Dis. Reptr. 36. 1952, 261—268, 7 fig.

Lübke, A., Der Goldafter auf den Nordsee-Inseln. [Hippophaë rhamnoides an Euproctis chrysorrhoea] Ztschr. Pfl.krankh. 59. 1952, 221—223, 3 Abb.

Mader, W., Nährsalzmangel-Kulturen von Marchantia polymorpha. Phyton, Horn (Österr.), 4. 1952, 124—131.

Meiners, J. P., A new race of head smut on bromar variety of mountain brome. [Ustilago on Bromus marginatus] Plant Dis. Reptr. 36. 1952, 166.

Montfort, C., Felgner, I., und **Müller, L.,** Differenzfilterversuche über die wirksamen Strahlenbereiche bei der Chlorophyllzerstörung durch Sonnenlicht im Gewebe von Tiefen-Laminarien. Ztschr. Bot. 40. 1952, 173—186.

Ochi, H., The preliminary report on the osmotic value, permeability, drought and and cold resistance of mosses. Bot. Mag., Tokyo, 65. 1952, 10—12.

Patel, M. K., Wankar, B. N., and **Kulkarni, Y. S.,** Bacterial leaf-spot of Amaranthus viridis L. [Xanthomonas amaranthicola] Curr. Sci., Bangalore, 21. 1952, 346—347.

Peach, M., Aquatic predacious fungi. II. Trans. brit. mycol. Soc. 35. 1952, 19—23, 2 fig.

Pesante, A., Segnalazione di una ruggine nuova della Statice (Statice sinuata L.). (Report of a new rust on Statice (Statice sinuata L.).) [Uromyces armeriae, U. limonii] Nuovo Giorn. bot. ital. 59 (n. ser.). 1952, 561—564, 2 fig.

Ramakrishnan, T. S., and **Sundaram, N. V.,** A new rust on Antidesma in India. Trans. brit. mycol. Soc. 35. 1952, 26—28, 5 fig.

Rasmussen, C. R., Mushroom growing in Denmark. [diseases] Mushroom News (Engl.) 4. 1952, nr. 2, p. 24—27, 4 fig.

Riberéau-Gayon, J., et **Peynaud, E.,** Formation par Botrytis cinerea d'inhibiteurs de la croissance de Saccharomyces cerevisiae. Congr. int. Biochim. Résumés Commun. 2. 1952, 110.

Roland, G., Sur une mosaïque de Rumex obtusifolius. [Rumex virus 2 (Myzus persicae et Aphis rumicis)] Parasitica, Gembloux, 8. 1952, 54—57, 1 fig.

Rousseau, J., Action de l'acide 2, 4-dichlorophénoxyacétique sur les spores de Marchantia polymorpha L. Compt. rend. Acad. Sci., Paris, 234. 1952, 988—990.

Servazzi, O., Su una ruggine di Statice latifolia Sm. (On a rust of Statice latifolia Sm.) [Uromyces limonii] Nuovo Giorn. bot. ital. 59 (n. ser.). 1952, 576—577.

Stoller, B. B., Abnormal growth and fructification of the cultivated mushroom. Science, Lancaster, 116. 1952, 320—322, 1 fig.

Stoller, B. B., Studies on the function of the casing for mushroom beds. Part I. The relation of the abnormal growth of the cultivated mushroom to fructification and casing soil. Part II. Some chemical and physical characteristics of the casing soil and their effect on fructification. Part III. The use and characteristics of peat as a casing for mushroom beds. MGA Bull. (Mushroom Growers' Assoc., Engl.) 34. 1952, 289—297; 35. 1952, 321—326; 36. 1952, 352—360.

Storey, I. F., Summer troubles in the houses. [Verticillium on mushrooms] Grower, London, 38. 1952, 215.

Storey, I. F., Tackle cobweb disease early. [Dactylium dendroides] Grower, London, 37. 1952, 1099, 1101.

Thirumalachar, M. J., and **Whitehead, M. D.,** Sporangial phase of Sclerospora butleri. [on Eragrostis plumosa] Amer. J. Bot. 39. 1952, 416—418, 8 fig.

Vaughn, J. R., and **Klomparens, W.,** Drugs on the green. [Sclerotinia, Helminthosporium on Agrostis palustris] Golf Course Reptr. 20. 1952, nr. 2, p. 5—7, 1 fig.

Walker, E. A., Rogerson, C. T., and **Jenkins, A. E.,** Additional collections of plantain scab and violet scab from several North Central States. [Sphaceloma plantaginis and S. violae on Plantago spp. and Viola spp.] Plant Dis. Reptr. 36. 1952, 331—332.

Wylie, R. B., A study of tissues about a large leaf mine. [on Eupatorium purpureum] Proc. Iowa Acad. Sci. 59. 1952, 145—151, 4 fig.

The **cultivation of mushrooms.** [diseases and pests] Dept. Agric., Dublin, Leafl. nr. 123. 1952, 6 p.

Report Mushroom Research Station, Yaxley, for year 1951. 1952, 58 p., 10 fig.

Truffle. [Pseudobalsamia microspora] Mushroom News (Engl.). 4. 1952, nr. 2, p. 28—29, 1 fig.

IV. Maßnahmen des Pflanzenschutzes
Measures of plant protection
Principes de la protection des plantes

1. Pflanzenhygiene
Plants hygiene — Hygiène des plantes

a. Einfluß der Umgebung, insbesondere des Klimas, auf Pflanzenkrankheiten: Phänologie der Parasiten

Environment influences, specially of the climate, on plant diseases: phenology of parasites

Influence du milieu extérieur, sourtout du climat, sur les maladies des plantes: phénologie des parasites

Böer, W., Witterung und Pflanzenwachstum (unter Benutzung langjähriger phänologischer Beobachtungen aus Thüringen). Akademie-Verl., Berlin 1952. 63 S., 12 Abb. (Abh. meteorol., hydrol. Dienst DDR Nr. 14 (Bd. II).)

Bolle, F., Phänologie aus verschiedenen Gesichtspunkten. Nachr.bl. dtsch. Pfl.schutzd., Braunschweig, 4. 1952, 60—61.

Bortels, H., Mikrobiologischer Beitrag zum Kausalproblem der Meteoro-Biologie. Med.-meteorol. Hefte 1. 1952, Nr. 7, S. 24—35, 16 Abb.

Büch, C., Milde Winter fördern die Schädlinge. Saarl. Bauernbl. 6. 1952, 57.

Coulombe, L. J., L'influence du milieu sur les maladies parasitaires des plantes. Agriculture, Montréal (Québec), 9. 1952, 334—346.

Lühmann, M., und **Drees, O.,** Über die Temperaturabhängigkeit der Atmung sommerschlafender Blattkäfer. (Ein Beitrag zum Adaptationsproblem.) Zool. Anz. 148. 1952, 13—22, 1 Abb.

Marchionatto, J. B., Los periodos de maximas y minimas de las invasiones de langosta en la Argentina. In: Comité Interamericano Permanente Antiacridiano, Sesión Extraordinaria (Buenos Aires) 1952, p. 25—28.

Mills, H. B., Weather and climate. [distribution of insects] US Dept. Agric. Yearb. Agric. 1952, 422—429, 4 fig.

Müller, H. J., und **Unger, K.,** Über den Einfluß von Licht, Wind, Temperatur und Luftfeuchtigkeit auf den Befallsflug der Aphiden Doralis fabae Scop. und Myzodes persicae Sulz. sowie der Psyllide Trioza nigricornis Frst. Züchter 22. 1952, 206—228, 25 Abb.

Schrödter, H., Agrarmeteorologische Beiträge zu phytopathologischen Fragen mit besonderer Berücksichtigung der Bedeutung des Mikroklimas für Pflanzenkrankheiten. Abh. meteorol. Dienst Aschersleben 2. 1952, 15, 17 fig.

Simonis, W., Untersuchungen zum Dürreeffekt. I. Mitteilung. Morphologische Struktur, Wasserhaushalt, Atmung und Photosynthese feucht und trocken gezogener Pflanzen. Planta 40. 1952, 313—332, 4 Abb.

Steubing, L., Die Bedeutung von Windschutzanlagen für das Mikroklima. Dtsch. Landw. 3. 1952, 523—526

b. Prädisposition, Immunität und Resistenz

Predisposition, immunity and resistance

Prédisposition, l'immunité et résistance

Åkerman, Å., (Plant nutrition and rust resistance — a problem of current interest.) Växt-Närings-Nytt (Sverige) 8. 1952, 4.

Boerger, A., Genética de la immunidad vegetal en el Rio de la Plata. Arch. fitotécn. Uruguay, Montevideo, 5. 1952, 55—93.

Clapper, R. B., Breeding and establishing new trees resistant to disease. Econ. Bot., Lancaster, 6. 1952, 271—293.

Davis, D., Inducing disease resistance with plant growth-regulators. Phytopathology 42. 1952, 465.

Davis, D., and **Dimond, A. E.,** Altering resistance to disease with synthetic organic chemicals. Phytopathology 42. 1952, 563—567.

Dworezkaja, E. I., (Effect of insect pests on drought resistance of tree and shrub species.) Lesnoe Khoz. (USSR) 5. 1952, 67—71.

Gäumann, E., Über Abwehrreaktionen bei Pflanzen. Zentralbl. Bakt., I. Abt., 158. 1952, 205—216, 16 Abb.

Jones, F. R., Testing for disease resistance. Abstr. Pap. int. Grassland Conf. 6 (A). 1952, 20—21.

Lamb, K. P., Insect resistance in certain varieties of plants. New Zealand R. Soc. Sci. Congr. Rept. 7 (1951). 1952, 92 (Abstr.).

Mamontowa, A. N., (Change in organism during the process of feeding of plants as one of the causes for loss of resistance by varieties.) [experiments with brown rust of wheat] Dokl. Akad. Nauk SSSR 82. 1952, 493—496.

Mastenbroek, C., Over de differentiatie van Phytophthora infestans (Mont.) de Bary en de vererving van de resistentie van Solanum demissum Lindl. (Investigations into the differentiation of Phytophthora infestans (Mont.) de Bary and the inheritance of the immunity of Solanum demissum Lindl.) Proefschr. Landbouwhogesch. Wageningen 1952. 121 p — Euphytica, Wageningen, 1. 1952, 187—198.

Maximow, N. A., (Ausgewählte Arbeiten über Dürre- und Kältewiderstandsfähigkeit der Pflanzen. Band II: Kältewiderstandsfähigkeit der Pflanzen.) (Akad. Wiss. USSR), Moskau 1952. 294 p.

Mills, W. R., 2XJ-1. [potato with immunity to all blights except race D and potato breeding] Pennsylv. agric. Exp. Stat. Bull. 540 (Suppl. 2). 1952, 6.

Packard, C. M., and **Martin, J. H.,** Resistant crops, the ideal way. US Dept. Agric. Yearb. Agric. 1952, 429—436, 1 fig.

Schmitt, C., Influence de la lumière sur la résistance de plantules de Lepidium sativum L. à Botrytis cinerea Pers. Compt. rend. Acad. Sci., Paris, 235. 1952, 258—260.

s'Jacob, J. C., Doel en werkzaamheden van de Afdeling Resistentie-Onderzoek van het IPO. (Objectives and duties of the Plant Disease Resistance Department of the Institut of Phytopathological Research (IPO).) Meded. Dir. Tuinbouw. 15. 1952, 758—772, 3 fig. (Inst. plantenziektenkdg. Onderzoek, Wageningen, Meded. no. 52).

s'Jacob, J. C., Voor de practische kweker bruikbare methoden van resistentie-onderzoek. (Methods of testing for disease resistance available to the practical breeder.) Euphytica, Wageningen, 1. 1952, 219—230.

Sokolowa, O. W., (Frost resistance of the tree and shrub species in nurseries of the Botanic Garden of the V. L. Komarov Botanic Institut of the Academy of Sciences, SSSR.) Trudy Akad. Nauk SSSR, Bot. Inst. ser. 6 (Introd. Rast. i Zelenoe Stroitel'stvo), 2. 1952, 94—130.

Thomas, M., Back crossing — the theory and practice of the backcross method in the breeding of some non-cereal crops. [Fungi] Bur. Plant Breedg., Cambridge, Techn. Commun. 16. 1952, VI + 136 p.

Torikata, H., and **Komai, Y.,** (Studies on the resistance of Japanese pear to black spot disease fungus (Alternaria kikuchiana Tanaka) III. On the Polyphenoloxidase in the fungus free filtrate of culture media.) Ann. phytopath. Soc. Japan 16. 1952, 63—68, 2 fig.

Van Slijcken, A., (The search for and the breeding of disease-resistant strains of agricultural crops.) Meded. Landbouwhoogesch., Opzoek. stat. Gent 17. 1952, 61—74.

Wilson, M. C., Resistance and damage studies on legumes. Proc. amer. Assoc. econ. Entomologists, North Centr. States Br., 7. 1952, 29—31.

Factors in plant hardiness. Gard.' Chron., London, 132. 1952, 131.

Methoden der Resistenzuntersuchung für den praktischen Züchter. Gartenwelt 52. 1952, 342.

Piper Sudan grass. [Helminthosporium turcicum, Colletotrichum graminicola] Seed World 71. 1952, nr. 8, p. 43, 2 fig.

c. Kulturmethoden (Bodenbearbeitung, Düngung usw.)

Cultivation methods (cultivation of the soil, manuring etc.)

Méthodes de cultivation (cultivation du sol, engrais etc.)

Adams, R., Some aspects in the cultural control of weeds. J. R. hortic. Soc., London, 77. 1952, 178—182.

Baker, W. A., and **Mathews, O. R.,** Good farming helps control insects. US Dept. Agric. Yearb. Agric. 1952, 437—440.

Bockmann, H., Die Fruchtfolge als prophylaktisches und therapeutisches Mittel gegen Pflanzenkrankheiten und Schädlinge. Arb. dtsch. Landw.-Ges. Bd. 16. [1952], 18 S.

Craig, H. A., Cultural and other control methods of persistent perennial weeds. Proc. north centr. Weed Control Conf. 9. 1952, 17—18.

Kelton, E., Greasewood, blackbrush, it's still bad around Fort Stockton [Tex.] they're controlling it with a super stalk cutter. Soil, Water Mag. 1. 1952, nr. 9, p. 18—19.

Krüger, W., Einfluß der Bodenbearbeitung auf die Tierwelt der Felder. (Ein Beitrag zur Agrarökologie.) Ztschr. Acker-, Pfl.bau 95. 1952, 261—302, 17 Abb.

Latypow, A. Š., (Der Einfluß der Furchtiefe auf die Verunkrautung eines Bodens.) Dokl. Vsesoiuzn. Akad. Sel'skohoz Nauk im. V. I. Lenina (Proc. Lenin Acad. agric. Sci.) 18. 1952, nr. 11, p. 21—23.

Möller, O., Die Umgestaltung der Natur in der Sowjetunion. Verlag der Nation, Berlin 1952. 50 S., 1 Karte.

Nagel, R., Fruchtfolge — Düngung, Krankheits- und Schädlingsbekämpfung. Rhein. Bauernztg. 6. 1952, 717.

Parks, R. R., Cultivation — still our first line of defense against weeds. Impl. Rec., San Francisco, 49. 1952, nr. 6, p. 25—26.

Reyntens, H., Prévention et lutte contre la renoncule et le pissenlit dans les herbages, par le parcellement, le pâturage et le travail superficiel du sol. Rev. Agric., Bruxelles, 5. 1952, 727—732.

Robinson, D. H., Clean the stubble. [soil cultivation as a means of weed control] Farmers Weekly, London, 37. 1952, nr. 7, p. 51.

Rui, D., (The effects of overhead irrigation on the diseases and pests of plants.) Acqua nei Campi, Milano, 4. 1952, 78—79.

Seely, C. I., Controlling perennial weeds with tillage. Idaho agric. Exp. Stat. Bull. 288. 1952, 43 p.

Saatenpflege mit der Egge. Mitt.bl. Landesverb. Gartenbau, Landw. Berlin 2. 1952, 99.

Wirksamere Unkrautbekämpfung dringend notwendig. Verbesserte Fruchtfolge — intensivere Bodenbearbeitung — stärkere Verwendung des Kalkstickstoffes wirken Wunder. Rhein. Bauernztg. 6. 1952, 885.

d. Überwachung, Wanderung und Verschleppung von Krankheiten, Saatenanerkennung, Quarantäne

Control, wandering and spreading of plant diseases, seed-inspection, quarantine

Surveillance, migration et importation des maladies végétales, inspection des semences, quarantaine

Abbott, E. V., Seedling testing and disease work at the Houma Station during 1951. Sugar Bull. 30. 1952, 344, 375—376, 380.

Becker, G. G., An agricultural »Ellis Island«. US Dept. Agric. Yearb. Agric. 1952, 355—360.

Bjegović, P., Masovna pojava miševa u planinskim reonima Srbije i istočne Bosne. (Apparition en masse de rongeurs en Serbie et en Bosnie.) Saschtita Bilja, (Plant Prot.), Beograd, nr. 12. 1952, 101—102.

Bonnemaison, L., Remarques sur les migrations chez les Aphidinae. Trans. IXth int. Congr. Ent., Amsterdam, 1 (1951). 1952, 490—494.

Briejer, J., Einige Ansichten über internationale Abwehrmaßnahmen gegen die Verbreitung von Pflanzenkrankheiten. Gesunde Pflanzen 4. 1952, 134—136, 1 Abb.

Bruneteau, J., Défense sanitaire des frontières et désinsectisation des denrées importées. Phytoma, Paris, 5. 1952, nr. 43, p. 19—24, 3 fig.

Burns, E. A., Inspection in transit. US Dept. Agric. Yearb. Agric. 1952, 365—370, 1 fig.

Conkle, H. J., Our domestic quarantines. US Dept. Agric. Yearb. Agric. 1952, 360—364, 1 fig.

Dannreuther, T., Migration records, 1951. Entomologist, London, 85. 1952, 125—131, 155—160.

De Tempe, J., (American experiences in seed control.) Nieuwe Veldbode (Nederland), 18. 1952, 274—275.

Dexter, R. W., Spread of the Japanese beetle [Popillia japonica] into Portage County, Ohio. Ohio J. Sci. 52. 1952, 360—362.

Farrar, M. D., New world travelers invade crops, cause alarming pest populations that prevent farm profits without proper pesticide controls. Imported menace. South. Seedsman (Texas) 15. 1952, nr. 2, p. 32, 72—73.

Gram, E., Auf der Brücke nach Mexiko. [Pflanzenquarantäne] Gesunde Pflanzen 4. 1952, 124—127.

Gray, H. E., Insects observed at sea. J. econ. Ent. 45. 1952, 1081.

Hase, A., Die wirtschaftliche Bedeutung eingeschleppter Groß-Schädlinge und ihre Bekämpfung mit neuzeitlichen Mitteln. Schädlingsbekämpfung 44. 1952, 93—98.

Helson, G. A. H., Relationship of entomology to plant quarantine. New Zealand Sci. Rev. 10. 1952, 110—113.

Holz, W., Organisation des Warndienstes in den Niederlanden. I-II. Gesunde Pflanzen 4. 1952, 289—291, 312—314.

Holz, W., Pflanzenschutzlicher Warndienst in Holland. Ztschr. Pfl.krankh. 59. 1952, 459—461.

Huggins, H. C., Migrants in 1951. Entomologist, London, 85. 1952, 42—43.

Hus, P., Die Organisation der Warnungsmeldungen in den Niederlanden. Mitt. Biol. Zentralanst. H. 74. 1952, 6—11.

Jannone, G., Preliminary report on the Mission of Entomology and Plant Quarantine in USA as a participant in a technical assistance project of ECA (United States Government). Boll. Lab. Ent. Agr. »Filippo Silvestri«, Portici, XI. 1952, 149—182, 23 fig., 1 tab.

Kessler, B., Grenzkontrolle zum Schutze des Pflanzenbaues. Landw. Ztschr. Nord-Rheinprov. 119. 1952, 479—480, 5 Abb.

Klauß, Der Pflanzenschutz-Warndienst. Monat Januar. Saarl. Bauernbl. 6. 1952, 11, 5 Abb.

Ling, L., Digest of plant quarantine regulations. FAO Developm. Pap. Agric. 23. 1952, 164.

Lorch, Y., (Ecology of plant disease outbreaks.) Hassadeh, Tel-Aviv, 33. 1952, 171—174.

Lounsky, J., L'horticulture belge devant le marché nord-américain. Aspect international du problème de la protection des plantes. Parasitica, Gembloux, 8. 1952, 47—53.

McCoward, D. J., Grading and inspection of fresh fruit and vegetables in the USA. Agriculture, J. Minist. Agric., London, 59. 1952, 135—139.

Mertin, J. V., Plant quarantine survey in the Northern Territory. J. austr. Inst. agric. Sci. 18. 1952, 27—32.

Messenger, A. P., Inspection at terminals. US Dept. Agric. Yearb. Agric. 1952, 371—372, 1 fig.

Middleton, W., and **Cronin, T. C.,** Off limits for beetles. [federal quarantine against Popillia japonica] US Dept. Agric. Yearb. Agric. 1952, 574—580.

Miller, P. R., and **O'Brien, M.,** Plant disease forecasting. Bot. Rev., Lancaster, 18. 1952, 547—601.

Miller, P. R., and **O'Brien, M.,** The Plant Disease Warning Service in 1952. Plant Dis. Reptr. Suppl. 217. 1952, 203—212.

Moore, W. C., Principles underlying plant import and export regulations. Plant Path., London, 1. 1952, 15—17.

Muhr, O., Hyphantria cunea (H. textor), eine amerikanische Arctiide, im östlichen Niederösterreich und bei Wien. Ent. Ztschr., Frankfurt, 61. 1952, 190—191.

Nizamlioğlu, K., Yeni bir epidemi sebebi. (Eine neue Ursache für eine Epidemie.) [Agrotis, von Hochwasser verschleppt] Tomurcuk, Istanbul, 1952, nr. 1, p. 5.

Olds, H. F., Fifty years of plant quarantine legislation and activities in B. C. Proc. ent. Soc. brit. Columbia 48. 1952, 34—36.

Palmer, E., Insect immigrants fight pests in crops. Veldtrust 13. 1952, nr. 5, p. 21—22, 31.

Piacco, R., (The introduction of Ottelia alismoides into Italy.) Riso (Italia) 1: 1952, nr. 11, p. 20—21.

Podtiaguin, B., Breve informe referente a las invasiones de Schistocerca cancellata (Serville, 1893, Scudder) en el Paraguay desde noviembre de 1950 hasta septiembre de 1951, inclusive. In: Comité Interamericano Permanente Antiacridiano, Sesión Extraordinaria, Buenos Aires, 1952, p. 51—77.

Riveros, J. E., La invasion de filoxera. Chacra, Buenos-Aires, 22. 1952, nr. 257, p. 36.

Rohrbach, H., Wissenswertes über die amtlichen Bestimmungen, betr. die Einfuhr von Pflanzen in die USA. Dtsch. Baumsch. 4. 1952, 338—339.

Saha, J. C., Efficacy of quarantine in controlling pests and diseases. Bull. bot. Soc. Bengal, Calcutta, 5 (1951). 1952, 25—30.

Schoel, W., Die Entwicklung der Amtlichen Pflanzenbeschau an Einfuhren in Deutschland. Gesunde Pflanzen 4. 1952, 16—21, 1 Abb., 43—45.

Schoel, W., Die pflanzensanitäre Abfertigung von Ausfuhren aus der Bundesrepublik. Gesunde Pflanzen 4. 1952, 90—94, 1 Abb.

Schoel, W., Zur Bedeutung der pflanzensanitären Einfuhr-Quarantäne. Gesunde Pflanzen 4. 1952, 307—309, 1 Abb.

Schumacher, G., Der Warndienst im Pflanzenschutz. Landw. Ztschr. Nord-Rheinprov. 119. 1952, 478—479.

Swain, R. B., How insects gain entry. US Dept. Agric., Yearb. Agric. 1952, 350—355.

Wilkins, V. E., Hyphantria cunea Drury, ein neues europäisches Pflanzenschutzproblem. Pflanzenschutz, München, 4. 1952, 70—71.

Williams, C. B., How far do insects travel? Rothamsted Exp. Stat., Harpenden, Rept. 1951. 1952, 173—180.

Williams, C. B., The migration and drift of insects and its international aspect. Trans. IXth int. Congr. Ent., Amsterdam, 1 (1951). 1952, 63—68.

Wolcott, G. N., Migrating aphids. Science, Lancaster, 116. 1952, 43—44.

Bemerkenswerte Schädlingsauftreten der letzten Wochen. Pflanzenarzt, Wien, 5. 1952, Nr. 7, S. 1—2, 3 Abb.

Domestic quarantine notices; pink bollworm [Pectinophora gossypiella] quarantine US Bur. Ent., Plant Quar. B.E.P.Q. — Q. 52 (rev.). 1952, 13 p.

Domestic quarantine notices revocation of thurberia weevil [Anthonomus grandis thurberiae Pierce] quarantine. US Bur. Ent., Plant Quar. B.E.P.Q. — Q. 61. 1952, 1 p.

Les **journées d'étude des avertissements agricoles en 1951.** Phytoma, Paris, 5. 1952, nr. 39, p. 6—7.

Organisationsplan der Deutschen Forschungszentrale für Schmetterlingswanderungen. Ent. Ztschr., Frankfurt a. M., 62. 1952, 38—39.

Outbreaks and new records. FAO Plant Prot. Bull. 1. 1952, nr. 3, p. 43—44.

Pflanzenschutzmeldedienst: Auftreten von Pflanzenkrankheiten und -schädlingen [in den einzelnen Monaten]. Nachr.bl. dtsch. Pfl.schutzd., Braunschweig, 4. 1952, 108—109, 125—126, 140—142, 156—157, 170—172.

Plant quarantine announcements. FAO Plant Prot. Bull. 1. 1952, 30—32; 45—46; 1953, 63—64; 77—78; 93—94; 110—111; 124—125; 141—142; 158—159; 174—175; 190.

Plant quarantine import restrictions of India. US Bur. Ent., Plant Quar. B.E.P.Q. 404 (rev.). 1952, 7 p.

Plant quarantine import restrictions of Italy. US Dept. Agric. Bur. Ent., Plant Quar. B.E.P.Q. 469 (rev.). 1952, 4 p.

Plant quarantine import restrictions of the Kingdom of Belgium. US Bur. Ent., Plant Quar. B.E.P.Q. 437 (rev.). 1952, 11 p.

Plant quarantine import restrictions of the Kingdom of Rumania. US Dept. Agric. Bur. Ent., Plant Quar. B.E.P.Q. 422 (Suppl. 5). 1952, 1 p.

Treating procedures authorized for use as a basis for certification of products regulated by the Japanese beetle [Popillia japonica] quarantine. Hoboken (N.J.) 1952 (?), 57 p.

White-pine blister rust quarantine. US Bur. Ent., Plant Quar. B.E.P.Q. — Q. 63. 1952, 4 p.

2. Pflanzentherapie
Plant therapeutics — Thérapeutique des plantes

a. Untersuchungs- und Bekämpfungstechnik
Methods of examination and technics of disease control
Méthodes de recherche et technique de la lutte contre les maladies

Allgemeiner Teil
General part — Partie générale

Alvarez, L. A., Protección de la salud de las plantas. Rev. Agric., Puerto Rico, 43. 1952, 76—91.

Banolas, H., Dos problemas para la meresma. (Frost protection and disease control.) Bol. Cám. Ofic. Agr. Barcelona 7. 1952, 242—246.

Behrens, O., Pflanzenheilkunde in Hawaii. Gesunde Pflanzen 4. 1952, 38—40, 1 Abb.

Beran, F., Pflanzenschutz in den USA. Österr. Produktivitäts-Zentrum, Wien 1952. 91 S., 44 Abb.

Besemer, A. F. H., (Factors affecting the action of crop protecting products, not yet duly taken notice of in practice.) Meded. Dir. Tuinbouw 15. 1952, 777—782.

Bollow, H., Über das Konservieren und Präparieren von botanischen und zoologischen Objekten. (11. Fortsetzung.) Pflanzenschutz, München, 4. 1952, 26—28, 3 Abb.

Bouriquet, G., La défense des cultures aux États-Unis; exemples à retenir pour les Territoires Français d'Outre-Mer. Agron. trop., Nogent-sur-Marne, 7. 1952, 176—180.

Callaham, R. Z., and **Miller, J. M.,** A frameless insect cage for use on trees. US Bur. Ent. Plant Quar. ET-304, 1952. 4 p.

Calvert, J., An apparatus for cutting and treating plant (or animal) tissue in one operation. J. austr. Inst. agric. Sci. 18. 1952, 105—107.

Chao, Yung-Chang, and **Peterson, A.,** A new type of aspirator. J. econ. Ent. 45. 1952, 751, 1 fig.

Clarke, P. H., and **Cowan, S. T.,** Biochemical methods for bacteriology. J. gen. Microbiol. 6. 1952, 187—197.

Decker, H. M., Geile, A. F., Harstad, J. B., and **Gross, N. H.,** Spun glass air filters for bacteriological cabinets, animal cages, and shaking machine containers. J. Bact., Baltimore, 63. 1952, 377—393, 4 fig.

Deloustal, J., Quelques aspects de la lutte contre les parasites des cultures aux USA. Rev. hortic., Paris, 124. 1952, 714—717.

Del Valle, R. G., (Simple measures for plant health.) Gaz. Agric., Moçambique, 4. 1952, 260—261.

Denninger, C., La photographie des insectes et autres parasites des cultures. Phytoma, Paris, 5. 1952, nr. 42, p. 9—12, 6 fig.

De Philippis, A., Un procedimento efficace contro gli animali danneggiatori delle semine. (Ein wirksames Vorgehen gegen tierische Samenschädlinge.) Italia forest., mont., Firenze, 7. 1952, 151.

Drummond-Gonçalves, R., Liquido para a conservação de material destinado a museu. (Liquid for the preservation of material intended for the museum.) Biológico, São Paulo, 18. 1952, 188—191, 1 fig.

Dumas, P., La protection des végétaux en France. Phytoma, Paris, 5. 1952, nr. 40, p. 17—22, 5 fig.

Edwards, R. W., and **Hartman, E.,** A simple technique for collecting fungus specimens from infected surfaces. Lloydia, Cincinnati (Ohio), 15. 1952, 39.

Eichler, W., Behandlungstechnik parasitärer Insekten. Eine Anleitung zur mikroskopischen Untersuchung und wissenschaftlichen Bearbeitung hygienisch und phytopathologisch wichtiger Insekten und Milben unter besonderer Berücksichtigung von Fang und Zucht, Mittelprüfung und Präparationstechnik. Akad. Verl.ges. Geest & Portig K.-G., Leipzig 1952. 286 S., 82 Abb.

Evans, E. E., and **Walls, K. W.,** The separation of biological stains by filter paper electrophoresis. J. Bact., Baltimore, 63. 1952, 422—423.

Farwell, E. D., Observaciones sobre algunas de las practicas de Manejo acostumbradas en las Haciendas de ganado lechero en el Valle del Cauca. Acta agron. (Colombia) 2. 1952, 115—117.

Fellows, H., and **Connin, R. V.,** A glass and plastic insect—proof cage. Plant Dis. Reptr. 36. 1952, 471—473.

Fiedler, O. G. H., Die Verwendung von Kunstfaser-Strumpfgewebe für Insektenbehälter. Anz. Schädl. kunde 25. 1952, 45—46.

Fraymouth, J., and **Hawker, L. E.,** The use of commercial »pectozyme« in the anatomical study of parasitic fungi within plant tissues. Trans. brit. mycol. Soc. 35. 1952, 91.

Frost, S. W., Light traps for insect collection, survey and control. Pennsylv. agric. Exp. Stat. Bull. 550. 1952, 32 p.

Frost, S. W., Unusual catches in light traps. Ent. News, Philadelphia, 63. 1952, 151—152.

Geier, P., et **Savary, A.,** Notre service d'avertissements phytosanitaires: ses limites actuelles et ses possibilités d'améliorations. Rev. rom. Agric., Vitic., Arboric. 8. 1952, 68—69.

Gram, K., and **Jørgensen, E.,** An easy, rapid and efficient method of counter-staining plant tissues and hyphae in wood-sections by means of fast green or light green and safranin. Friesia, København, 4. 1952, 262—266, 1 fig.

Gray, H. E., Food plant sanitation demands a consistent control program. Canad. Food. Ind. 23. 1952, nr. 4, p. 20—25.

Gregory, P. H., Spore content of the atmosphere near the ground. Nature, London, 170. 1952, 475—477.

Hirst, J. M., An automatic volumetric spore trap. Ann. appl. Biol. 39. 1952, 257—265, 2 fig., 1 tab.

Klauß, Pflanzenschutzarbeiten im Februar. — im November. Saarl. Bauernbl. 6. 1952, 34, 2 Abb., 101—102, 4 Abb., 123, 2 Abb., 154, 3 Abb., 171, 3 Abb., 187, 208, 2 Abb., 228.

Klett, Pflanzenschutz. [in den einzelnen Monaten] Obstbau 71. 1952, 27—28, 45, 62, 77—78, 93, 110—111, 123, 142, 158, 173, 186.

Koltermann, E., Der Pflanzenarzt im Hause. Ratgeber für die Schädlingsbekämpfung. Werbe-Verlag H. Koloska, Göttingen 1952, 32 S.

Krüger, W., Wie sollen kranke Pflanzen eingesandt werden? Landw.bl. Weser-Ems 99. 1952, 582.

Kulkarni, N. B., and **Gaiwad, S. R.,** Practical aspects in handling and preserving plant disease specimens. Poona agric. Coll. Mag. 42. 1952, 233—242.

Lack, C. H., A simple hot box for microcultures. J. gen. Microbiol. 7. 1952, 144, 2 fig.

Leib, E., Pflanzenschutz und landwirtschaftliche Praxis. Mit Rezepten allein kommen wir nicht weiter! Gesunde Pflanzen 4. 1952, 237—239.

Limasset, P., Les avertissements agricoles pour les maladies des végétaux. Phytoma, Paris, 5. 1952, nr. 43, p. 9—10, 1 fig.

Maltais, J. B., A simple apparatus for feeding aphids aseptically on chemically defined diets. Canad. Entomologist 84. 1952, 291—294.

Mangenot, F., Recherches méthodiques sur les champignons de certains bois en décomposition. Rev. gén. Bot., Paris, 59. 1952, 477—519, 544—555.

Miles, Ph. M., Preservation of insect and plant specimens in transparent plastics. Plant Path., London, 1. 1952, 65—68, 1 tab.

Mjegalow, W. A., (Bestimmungsbuch für Schädlinge der Feldkultur.) (Staatsverlag landw. Lit., Moskau) 1952. 126 p., 37 fig.

Nando, E., (Experiments in phytopathology 1951/1952.) Avvenire agric., Milano, 60. 1952, 305—306.

Nickell, L. G., Stimulation of plant growth by antibiotics. Proc. Soc. exp. Biol., New York, 80. 1952, 615—617.

Pinto Salvatierra, J., Sanidad vegetal. Agric. venezol., Caracas, 17. 1952, nr. 154, p. 38.

Popp, W., and **Cherewick, W. J.,** An improved method of smut inoculation. Phytopathology 42. 1952, 472.

Pratolongo, U., (Endotherapic or systemic insecticides.) Ric. sci. (Italia) 22. 1952, 1348—1334.

Rao, V. P., Progress in plant protection in India. FAO Plant Prot. Bull. 1. 1952, nr. 1, p. 11—16.

Roane, C. W., A method of preparing fungi for cytological studies. Phytopathology 42. 1952, 480 (Abstr.).

Sailer, R. I., A technique for rearing certain Hemiptera. US Bur. Ent., Plant Quart. ET-303. 1952, 5 p.

Saunby, R., Moth-traps and egg cartons. Entomologist, London, 85. 1952, 193—194.

Scurti, F., I campi sperimentali e le insidie delle prove in Campagna. (The experimental fields and the snares of field tests.) Ann. Sperim. agr., Roma, 6 (n. ser.). 1952, XXXVII—XLIX.

Skinner, F. A., Jones, P. C. T., and **Mollison, J. E.,** A comparison of a direct- and a plate-counting technique for the quantitative estimation of soil micro-organisms. J. gen. Microbiol. 6. 1952, 261—271, 2 Abb.

Smolák, J., (Attention to be given to the proper means of plant protection.) Socialist. Zeméd. (Čescosl.) 2. 1952, 778—788.

Stanton, W. R., A simple chamber for use in aseptic microdissection. J. gen. Microbiol. 7. 1952, 243—244, 1 fig., 1 tab.

Sylvén, E., Några synpunkter på metodik vid bekämpningsförsök. Växtskyddsnotiser, Stockholm, 16. 1952, 51—53, 1 fig.

Tempany, H., Factors limiting crop protection progress Int. Conf. 26—28 June 1951. Fernhurst Res. Stat. London, (Plant Prot.) Ltd., 1952, 85—100.

Turner-Graff, R., An effective use of Petri dishes for microcultures. J. gen. Microbiol. 7. 1952, 31—35, 1 tab.

Viel, G., Hascoet, M., et **Duclos, M.,** Semi-microméthode par molybdomanganimétrie pour le dosage des dépots laissés sur les végétaux par les composés zinciques. Ann. Épiphyties, Paris, 3. 1952, 273—280, 1 fig.

Wenzl, H., Die Anwendung statistischer Prüfverfahren in Pflanzenschutzversuchen. Ztschr. Pfl.krankh. 59. 1952, 26—38, 1 Abb.

Williams, C. B., Some notes on killing insects for collections and for scientific research. Entomologist, London, 85. 1952, 271—279.

Worst, J., Micro-forceps and micro-scalpels. Nature, London, 170. 1952, 1129—1130, 2 fig.

Yagi, N., (On fluorescent light trap.) J. Plant Prot., Tokyo, 36. 1952, 263—265.

Yamada, S., (Two devices in isolating pathogenic microbes.) Ann. phytopath. Soc. Japan 16. 1952, 10—12, 4 fig.

Anleitung zur Erkennung und Bekämpfung der wichtigsten Schädigungen der Kulturpflanzen. II. Gemüse- und Obstbau. Biol. Zentralanst., Berlin-Dahlem 1952, 8. Aufl., 79 S., 53 Abb.

Deutscher Pflanzenschutzkalender 1952. Dtsch. Bauernverlag, Berlin 1952, 132 S., Abb.

Nai-washni Karantirnix neprijateli i bolesti po rastenijata i natschini sa otkriwaneto im. (Wichtigste Maßnahmen gegen Schädlinge und Krankheiten der Pflanzen und deren Erkennung.) Landw.-Minist., Staatsverl. »Semisdat«, Sofia 1952, 32 p., 15 tab.

Nécessité d'un corps d'experts en matière de défense des cultures. Phytoma, Paris, 5. 1952, nr. 42, p. 7—8.

Pflanzenschutzarbeiten. [Jänner bis Dezember] Obst- u. Gartenbau, Stuttgart, 7. 1952, 13—14, 31, 41, 60, 77, 92—93, 108, 122, 141, 154—155, 172, 187.

Pflanzenschutz und Schädlingsbekämpfung im Obstbau, Weinbau, Gartenbau und Feldbau. Maag-Mitt., Dielsdorf-Zürich 1952, Nr. 89ff.

Schädlingsbekämpfung im Zeichen des Fünfjahrplanes. Pfl.schutzamt Sachsen-Anhalt, Halle a./S. 1952, 45 S., zahlr. Abb.

Spritzung, Bestäubung und Räucherung
Sprays, dusts and fumigation
Pulvérisation, poudrage et fumigation

(Siehe auch — see also — voyez aussi p. 184.)

Asquith, D., Are we ready for concentrates? Mountaineer Grower 22. 1952, nr. 190, p. 26—29.

Bellavite, F., (Calendar of plant spraying practices.) Inform. agric., Vicenza, 8. 1952, 106.

Bloodworth, M. E., Burleson, C. A., and **Cowley, W. R.,** A multi-purpose spray unit. Texas agric. Exp. Stat. Progr. Rept. 1460. 1952, 5. p.

Brodell, A. P., and **Burkhead, C. E.,** Battling crop pests. Farm Impl. News, Chicago, 73. 1952, nr. 8, p. 34—37.

Burrell, A. B., Efficiency in spraying, with special consideration of concentrates. Hoosier Hortic., Lafayette, 34. 1952, 19—30.

Chamberlin, J. C., Characteristics of airplane spray patterns at low flight elevations. Proc. north centr. Weed Control Conf. 9. 1952, 42—43.

Chella, G., (Sprays and sticking qualities.) Ispettorato prov. Agric. Napoli Circ. 6. 1952, 13—14.

Chisholm, R. D., Nature and uses of fumigants. US Dept. Agric. Yearb. Agric. 1952, 331—339, 2 fig.

Cooper, B. A., A review of two year's abstracts on spray poisoning (1950—1951). Bee World, Oxford, 33. 1952, 90—91.

Crucq, J., (Mist spraying in agriculture.) Nieuwe Veldbode (Nederland) 18. 1952, 505—506.

Dahl, M. H., (Observations on sprays.) Erhvervsfrugtavleren, Odense (Danmark), 18. 1952, 183—186.

Dawe, T. C. R., Spraying appliances on Pukekohe market gardens. New Zealand J. Agric. 84. 1952, 371.

Ennis, W. B., Williamson, R. E., and **Dorschen, K. P.,** Studies on spray retention by leaves of different plants. Weeds 1. 1952, 274—286.

Fagnani, G., (Disinfestation under vacuum with fumigants.) Inform. Fitopat., Bologna, 2. 1952, 34—36.

Feild, R. B., Collection of aerosol particles by atomized sprays. Abstr. of Thesis, Univ. Illinois, Urbana, 1952, 6. p.

Foster, R. L., Spraying is big business on the farm. [weeds, insect pests] Capper's Farmer (Kansas) 63. 1952, 21, 57.

Hammarlund, L., Vaedskemaengde og styrke ved sprøjtning. (Amount and concentration of spray mixtures.) Erhvervsfrugtavleren, Odense (Danmark), 1952, 325—328. — Gartnertidende, København, 68. 1952, 298—299.

Hammer, O. H., Concentrate vs. dilute sprays. Proc. amer. Assoc. econ. Entomologists, North Centr. States Br., 7. 1952, 24—27.

Hayward, L. G., Novel farm-made spray outfit. J. Dept. Agric. West. Austr. 1 (ser. 3). 1952, 243—247.

Herrbach, E. F., Concentrate spraying. Trans. Illinois State hortic. Soc. 1951. 1952, 90—102.

Hoare, E. R., The world spraying problem. Farm Mech. (England) 4. 1952, 181—183, 281—284.

Holz, W., Berechnung der Mittelmengen bei Verwendung von Gespannspritzen mit vermindertem Flüssigkeitsausstoß. Praxis u. Forschung 4. 1952, 66—67.

Knust, H. G., Farm-made boom sprays in southern Queensland. Cane Growers' Quart. Bull. (Queensland) 15. 1952, 80—83.

Latta, R., and **Lane, M. C.,** Fumigating soils and plants. US Dept. Agric. Yearb. Agric. 1952, 340—344.

Lenger, H., (Experiences with tree sprays.) Vruchtbare Aarde (Nederland) 10. 1952, 92—94.

Linskens, H. F., Über die Änderung der Benetzbarkeit von Blattoberflächen und deren Ursache. Planta 41. 1952, 40—51, 3 Abb.

Maan, W. J., Aerial crop-spraying against pests and diseases. II. Zaad-, Bloem- en Bollenwereld 16. 1952, 207, 209.

Marshall, J., More about concentrate spraying. Proc. Washington State hortic. Assoc. 48. 1952, 72—75.

Metcalf, P. E., and **Ossowski, L. L. J.,** A comparison of the size of droplets in oil fogs. Nat. Univ. Wattle Res. Inst. Rept. 4/5. 1952, 59—63.

Miller, P. R., and **O'Brien, M.,** Plant disease forecasting. Bot. Rev., Lancaster (Pennsylv.), 18. 1952, 547—601.

Mills jr., H. O., Eastern States members have their own excellent spray-dust facilities. East. States Co-op. 28. 1952, nr. 2, p. 22—25.

Mukerji, S., and **Chatterjee, S. N.,** A technique for determining accurately the areas of contact of the body of insects in locomotion with the ground surface. Curr. Sci., Bangalore, 21. 1952, 285—286.

Nixon, E. L., The principles of profitable spraying. Guide Post 30. 1952, nr. 7, p. 24—25.

Owens, H. B., and **Ditman, L. P.,** Liquefied gas-propelled sprays for the home garden. J. econ. Ent. 45. 1952, 602—607.

Pass, H., Grâce aux pulvérisations modernes. Ferme (Canada) 13. 1952, nr. 8, p. 8—9, 90.

Phillips, F. S., Pulverizaciones de verano. Chacra, Buenos Aires, 22. 1952, nr. 254, p. 32.

Potter, C., An improved laboratory apparatus for applying direct sprays and surface films, with data on the electrostatic charge on atomized spray fluids. Ann. appl. Biol. 39. 1952, 1—28, 5 fig., 1 tab.

Schmidt, G., Einige physikalische und chemische Fragen beim Stäuben, Spritzen, Vernebeln und Räuchern. Schädlingsbekämpfung 44. 1952, 75—77.

Schnaider, J., Badanie skuteczności opyłu. (Untersuchung der Wirksamkeit der Bestäubung.) Las polski, Warszawa, 36. 1952, 13—15.

Sinclair, W. B., and **Lindgren, D. L.,** Effect of load in fumatorium on sorption of fumigants. J. econ. Ent. 45. 1952, 726—731, 3 fig.

Sørensen, A., (Spraying and spraying technique.) Husmandshjemmet (Danmark) 2. 1952, nr. 15, p. 7.

Stobwasser, H., Gedanken über Aerokolloide, ihre Eigenschaften und Anwendungsmöglichkeiten im Pflanzenschutz. Ztschr. Pfl.krankh. 59. 1952, 358—364, 3 Abb.

Vitteau, R., Les appareils de pulvérisation à faible débit doivent être employés avec prudence. Génie rur., Paris, 45. 1952, 57—58.

Waters, H. A., Low volume spraying is jack pot for dealers. South. Seedsman (Texas) 15. 1952, nr. 2, p. 30—31, 66.

Williams, A. E., Aerosols: their use as bactericides and insecticides. Chem. Prod., London, 15 (n. ser.). 1952, 296—300.

Williams, A. T., Concentrate spraying is practical. East. States Co-op. 28. 1952, nr. 12, p. 16—17.

Williams, A. T., Mist makes a better way to spray. East. States Co-op. 28. 1952, nr. 3, p. 14.

Wilson, J. D., Low gallonage fungicide sprays. Agric. Chem., Baltimore, 7. 1952, nr. 2, p. 40—41.

Winning, E. v., und **Dünnebeil, H.,** Spritzversuche mit geringen Brüheaufwandsmengen. Nachr.bl. dtsch. Pfl.schutzd., Berlin, NF. 6. 1952, 45—52, 8 Abb.

Wise, W. S., Stream contamination from spraying operations. [from insecticides, fungicides, and herbicides] Connecticut Arborist 6. 1952, nr. 2, p. 2—3.

Yeomans, A. H., Directions for undustrial use of aerosols. US Dept. Agric., Res. Admin., Bur. Ent., E-835. March 1952.

Young, H. C., A new system for pest control, concentrate spraying. Reduction in cost is the big item in its favor. Wisconsin Hortic. 42. 1952, 115—116.

Yuill, J. S., Isler, D. A., and **Childress, G. D.,** Research on aerial spraying. US Dept. Agric. Yearb. Agric. 1952, 252—258.

Zimmer, S. J., The mechanics of spraying. World Crops, London, 4. 1952, 335—337.

Zwartendijk, J., Bestrijdingskalender voor de boomkwekerij. Tuinbouwgids, Den Haag, 1952, 492—493.

Zwartendijk, J., en Barendrecht, T., Bestrijding van ziekten en schadelijke dieren bij de boomteelt. Tuinbouwgids, Den Haag, 1952, 494—504.

Das **Contra-Sprühnebelverfahren** (Schäfer-Verfahren). Rhein. Weinztg. 2. 1952, 103.

Mischtabelle der Spritzmittel für den Pflanzenschutz. Saarl. Bauernbl. 6. 1952, 188.

Pflanzenschutz im Wechsel der Jahreszeiten. [Pflanzenschutzkalender] 1951 [und 1952], mit einem Verzeichnis der gebräuchlichsten Pflanzenschutzmittel. Mainzer Verl. anst. Will & Rothe KG., Mainz. 64 S. 1951, 128 S. m. zahlr. Abb.; 1952, 142 S. m. zahlr. Abb.

Smoke. Gard.' Chron., London, 132. 1952, 11.

Spraying and dusting. [insecticides and fungicides] Seed Trade Buyer's Guide 35. 1952, 226, 228, 230.

Saatgutbehandlung
Seed treatment
Traitement de semences

(Siehe auch — see also — voyez aussi p. 101.)

Arny, D. C., Seed treatment gives you better grain crops. Crops and Soils, Madison. 4. 1952, nr. 6, p. 22—24, 33.

Baker, K. F., A problem of seedsmen and flower growers — seed borne parasites. Seed World 70. 1952, nr. 11, p. 38, 40, 44, 46—47, 2 fig.

Bremer, H., und **Biyikoğlu, K.,** (Beizversuche mit Samen von Hülsenfrüchten und Gemüsen.) Bitki Koruma Bült. (Bull. Plant Prot.), Ankara, 1. 1952, 16—27.

Brentzel, W. E., Seed treatments. North Dakota agric. Exp. Stat. Bull. 376. 1952, 25 p.

Fletcher, F. W., Insecticides as seed treatments for the control of soil pests. Down to Earth, Midland (Michigan), 8. 1952, 16—19.

Gouttier, P., Désinfection des semences d'automne. Phytoma, Paris, 5. 1952, nr. 42, p. 20, 1 fig.

Heuberger, J. W., KF 467 (ethyl mercuric perthiocyanate): A new chemical for seed treatment of vegetables and cereals. Phytopathology 42. 1952, 11 (Abstr.).

Howe, W. L., Schroeder, W. T., and **Swenson, K. G.,** Seed treatment for control of seed-corn maggot and seed decay organisms. [Hylemyia cilicrura] Cornell Univ. agric. Exp. Stat. Bull. nr. 752. 1952, 34 p., 7 fig.

Hubert, K., Die Beizung des landwirtschaftlichen Saatgutes. Pfl.schutzamt Sachsen-Anhalt Merkbl. Nr. 20. 1952, 24. Aufl., 8 S., 3 Abb.

Johnston, H. W., Technique for obtaining aseptic seedlings. New Zealand J. Sci., Technol. (A) 33. 1952, nr. 6, p. 87—91, 2 fig.

Munn, M. T., Handling treated seed samples. Seed World 71. 1952, nr. 2, p. 14, 19.

Myers, A., A manual of seed testing. A. H. Pettifer, Sydney 1952. 80 p., 2 fig., 11 tab.

Starnes, O., Seed treatment to prevent injury by soil inhabiting pests. Hortic. News (New Jersey State hortic. Soc.) 33. 1952, 2249, 2451.

Starnes, O., and **Filmer, R. S.,** Treat bean and corn seeds to prevent injury by soil-inhabiting pests. New Jersey agric. Coll. Ext. Leafl. 78. 1952, 4 p.

Thenard, J., Remarques sur le traitement des semences. Phytoma, Paris, 5. 1952, nr. 36, p. 22. 1 fig.

Ontsmetten van zaaizaad bij zomergewassen: erwten, bonen, mais en vlas. (Treatment of summer crop seeds; peas, beans, corn and flax.) Plantenziektenkdg. Dienst, Wageningen, Ber. 980. 1952, 2 p.

Seed treatment of southern forage crops. Seed World 71. 1952, 40.

Verzeichnis der amtlich genehmigten Lohnsaatbeizstellen. Pfl.schutzamt Hannover [1952], 6 S.

Bodendesinfektion
Soil disinfection — Désinfection du sol

Aldrich, D. G., and **Martin, J. P.,** Soil fumigation effects. Citrus Leaves 32. 1952, nr. 9, p. 22—23, 28. — Down to Earth, Midland (Michigan), 8. 1952, nr. 3, p. 13—16.

Anderson, P. J., Increasing yield by soil fumigation. Cigar Val. News 2. 1952, nr. 4, p. 5.

Bewley, W. F., Steam sterilization of glasshouse soils. 13 th int. hortic. Congr., London, Mimeogr. Pap. 1952, 4 p.

Breny, R., La défense des cultures. X. Les fumigants du sol. Bull. hortic. (Begrique) 7 (n. ser.). 1952, 283—287.

Ciccarone, A., Fumigazione del suolo contro la tracheoverticilliosi. (Soil fumigation for control of Verticillium.) Italia agric. 89. 1952, 270—272, 3 fig.

Danguy, R., La désinfection des terres et des terreaux. Ann. Soc. Hortic. Haute-Garonne 24 (ser. 5). 1952, 320—327.

Gambrell, F. L., and **Heit, C. H.,** Soil chemicals in evergreen seedbeds. Amer. Nurseryman, Rochester, 95. 1952, 9—10.

Hoffman, I. C., New horticultural greenhouse utilized ideas in soil steaming. Ohio Farm, Home Res. 37. 1952, 54—55.

Jacks, H., and **Smith, H. C.,** Soil disinfection. XII. Effect of fumigants on growth of soil fungi in culture. New Zealand J. Sci., Technol. (A) 33. 1952, nr. 6, p. 69—73, 2 fig.

Johnson, V. A., and **Caskey, W. L.,** Soil sampler. [soil treatment in Japanese beetle quarantine procedures] US Bur. Ent., Plant Quar. ET-298. 1952, 4 p.

Klatt, W. L., Soil sterilants in present day weed control. Comm. Fertil., Atlanta, 84. 1952, nr. 6, p. 62—66.

Latta, R., and **Lane, M. C.,** Fumigating soils and plants. US Dept. Agric. Yearb. Agric. 1952, 340—344.

Lindemann, F., Entseuchung der Anzucht durch Kleindämpfgeräte. Süddtsch. Erwerbsgärtner 6. 1952, 253—254.

Martin, J. P., and **Ervin, J. O.,** Is fumigation harmful to soil? West. Grower, Shipper 23. 1952, nr. 12, p. 102—104.

Miller, P. R., Late blight appears. Cause and control of damping-off and root rot in conifer seedbeds. Agric. Chem., Baltimore, 7. 1952, nr. 5, p. 81, 83, 137, 139.

Morris, L. G., Dry light soil uses half the fuel of a heavy wet soil. [sterilization of soil] Grower, London, 37. 1952, 246—248.

Morris, L. G., Steam sterilising soil clods. Grower, London, 37. 1952, 315.

Neethling, L. J., The application of soil fumigants. Good Husbandry (South. Rhodesia) 2. 1952, nr. 12, p. 27, 39.

Petersen, H. I., Considerations with respect to fall treatment of soil. Dansk Landbrug, Aarhus, 71. 1952, 427—428.

Roistacher, C. N., Methods used in sterilizing nursery flats. Pacific Coast Nurseryman 11. 1952, nr. 5, p. 17, 34—36.

Simons, H. M., A new weapon for fighting the underground. [organic insecticides for control of soil pests] Farm and Ranch (South. Agric. Upper So. Ed.) 82. 1952, nr. 4, p. 11.

Szladits, I., Interactions of soil and antiseptics. Soils and Fertil., Harpenden, 15. 1952, 299—302.

Tiedjens, V. A., Soil use of insecticides. Agric. Chem., Baltimore, 7. 1952, nr. 3, p. 45—47, 118—120.

Van Koot, Ij., en **Bravenboer, L.,** Grondontsmetting. Tuinbouwgids, Den Haag, 1952, 254—259.

Steaming on way out in Holland. [soil sterilization] Fruit Grower, London, 1952, 903, 3 fig.

b. Biologische Bekämpfung
Biological control — Lutte biologique

Allgemeiner Teil
General part — Partie générale

Brandt, H., Möglichkeiten und Grenzen der biologischen Schädlingsbekämpfung. Techn. Bauern, Gärtner (Ausg. A) 4. 1952, 545—546.

Burman, J. H., Beat the insects. [biological control] Organic Gardg. 20. 1952, nr. 6, p. 16—17, 36.

Clausen, C. P., Biological control of insect pests. Calif. Citrogr. 37. 1952, 182, 204—206.

Clausen, C. P., Biological control of insects; California's subtropical climate favors establishment of natural enemies of agricultural insect pests. Calif. Agric., Berkeley, 6. 1952, nr. 11, p. 10.

Del Rivero, J. M., Acción de los insecticidas sobre la lucha biológica. Bol. Cám. Ofic. agríc., Murcia (España), 111. 1952, 5—7.

Del Rivero, J. M., Los productos fitoterapeuticos y la lucha biologica. [insect control] Siembra, Madrid, 8. 1952, 3—6.

Fjelddalen, J., Systemiske midler. Biokjemisk bekjemping av skadeyr. (Systemische Insektizide. Biochemische Schädlingsbekämpfung.) Gartneryrket (Norge) 1952, 47.

Fleschner, C. A., The biological control of insect pests. Mod. Nutrit. (amer. Acad. appl. Nutrit.) 5. 1952, nr. 7, p. 14—18.

Franssen, C. J. H., and **Tjoa Tjien Mo,** Biological control of coconut infestations in South West Celebes. Landbouw 24. 1952, 319—360.

Fullaway, D. T., Biological control of insect pests in the Hawaiian Islands since 1952. Hawaii. Bd. Comnr. Agric., Forestry Rept. 1952, 98—105.

Grandori, R., (Basis for logical control of the Pyralidae of corn.) [Pyrausta nubilalis] Boll. Zool. agr., Bachicolt., Torino, 18. 1952, 11—20.

Hocking, B., Two predators as prey. Canad. Field Naturalist 66. 1952, 107.

Hutson, R., Arbuthnot, K. D., and **Haseman, L.,** Can biological and chemical controls work together? Proc. amer. Assoc. econ. Entomologists, North Centr. States Br., 7. 1952, 17—24.

Klett, Warum wird nicht viel mehr biologische Bekämpfung getrieben? Württ. Wochenbl. Landw. 119. 1952, 760.

Könemann, E., Möglichkeiten und Grenzen des biologischen Pflanzenschutzes. Bebauet die Erde 22. 1952, 9—10.

Kotte, W., Pflanzenschutz und biologisches Gleichgewicht. Mitt. Biol. Zentralanst. H. 74. 1952, 11—15.

Kühlhorn, F., Termitenfeinde. Natur u. Volk 82. 1952, 49—53, 7 Abb.

Neumark, S., Chrysopa carnea Stephens and its enemies in Israel. Israel Forest Res. Stat. Publ. 1. 1952, 127 p.

Packard, C. M., and **Martin, J. H.,** Resistant crops, the ideal way. US Dept. Agric. Yearb. Agric. 1952, 429—436, 1 fig.

Régnier, R., et **Trouvelot, B.,** La position de la recherche biologique en entomologie appliquée. Historique — Développement — Perspectives. Trans. IXth int. Congr. Ent., Amsterdam, 1 (1951). 1952, 41—50.

Ross, W. A., Harmonizing chemical with biological control of orchard insects. 13th int. hortic. Congr., London, Mimeogr. Pap. 1952, 3.

Schaerffenberg, B., Biozönotische Regelung. Eine Aufgabe des Pflanzenschutzes. Gesunde Pflanzen 4. 1952, 191—192.

Schaper, P., Biologische Schädlingsbekämpfung. Dtsch. landw. Presse 75. 1952, 285.

Schaper, P., Neues aus dem Pflanzenschutz; die biologische Schädlingsbekämpfung im Mittelpunkt der Pflanzenschutz-Tagung 1952. Übersicht 3. 1952, Nr. 11, S. 57—59.

Vietinghoff-Riesch, A. v., Bildliche Darstellung der Vertilgerkreise einiger forstlicher Großschädlinge unter den Insekten. Trans. IXth int. Congr. Ent., Amsterdam, 1 (1951). 1952, 694—695.

Voûte, A. D., Zur Frage der Regulierung der Insekten-Populationsdichte durch räuberische Tierarten. Ztschr. angew. Ent. 33. 1952, 47—52.

Biologische Schädlingsbekämpfung. Gesunde Pflanzen 4. 1952, 228—229, 6 Abb.

Unschuldig verfolgt! Mitt. dtsch. Landw.-Ges., Frankfurt/M., 67. 1952, Beil. »Das Reich der Landfrau«, S. 191—192, 2 Abb.

The work of the Commonwealth Institute of Biological Control. Brit. agric. Bull. 5. 1952, nr. 19, p. 53—57.

Natürliche Feinde der Pflanzenschädlinge
Naturel enemies of plant parasites
Ennemis naturels des parasites de plantes

Protozoa, Bacteriophagaceae, Virus

Bergold, G., Fortschritte und Probleme auf dem Gebiete der Insektenviren. Ztschr. angew. Ent. 33. 1952, 267—278, 3 Abb.

Bird, F. T., On the multiplication of an insect virus. [Gilpinia hercyniae Htg.] Biochim., biophys. Acta 8. 1952, 360—368.

Block Wasser H., Demonstration of a new insect virus not associated with inclusion bodies. J. Bact., Baltimore, 64. 1952, 787—792, 1 fig.

Bull, P. C., Parasites of the wild rabbit, Oryctolagus cuniculus (L.) in New Zealand. New Zealand J. Sci., Technol. (B) 34. 1952, 341—372, 3 fig.

Cameron, J. W. M., A survey of investigations on the diseases of insects. [utilization of viruses for control] Ontario ent. Soc. Ann. Rept. 82 (1951). 1952, 7—14.

De Mello, I. F., Contribution à l'étude des micro-parasites des termites brésiliens. I. Sur une »Devescovina« du termite africain »Cryptotermes havilandi« (Sjöstedt), fixé dans le sol brésilien. Rev. bras. de Biol., Rio de Janeiro, 12. 1952, 433—445.

Franz, J., Erfolgreiche Verbreitung von Viruskrankheiten zur Forstschädlingsbekämpfung. Bericht über neuere kanadische Arbeiten. Ztschr. Pfl.krankh. 58. 1951, 185—187.

Hall, I. M., Observations on Perezia pyraustae Paillot, a microsporidian parasite of the European corn borer (Pyrausta nubilalis). J. Parasitol., Lancaster, 38. 1952, 48—52.

Kleczkowski, J., and **Kleczkowski, A.,** Effect of specific polysaccharides from the host bacteria and of ribonuclease on the multiplication of Rhizobium phages. J. gen. Microbiol. 7. 1952, 340—349.

Ratcliffe, F. N., Myers, K., Fennessy, B. V., and **Calaby, J. H.,** Myxomatosis in Australia: a step towards the biological control of the rabbit. Nature, London, 170. 1952, 7—11, 1 tab. geogr.

Schoene, W. J., and **Sibold, N. V.,** A virus disease of the red-banded leaf roller. [Argyrotaenia velutinana] J. econ. Ent. 45. 1952, 1081.

Smith, K. M., and **Xeros, N.,** Transmission of polyhedral viruses between different insect species. Nature, London, 170. 1952, 492, 1 fig.

Steinhaus, E. A., Infectious diseases of insects. US Dept. Agric. Yearb. Agric. 1952, 388—394.

Steinhaus, E. A., The susceptibility of two species of Colias to the same virus. J. econ. Ent. 45. 1952, 897—899.

Steinhaus, E. A., and **Hughes, K. M.,** A granulosis of the western grape leaf skeletonizer. J. econ. Ent. 45. 1952, 744—745.

Vago, C., Emploi du bleu Victoria pour la mise en évidence des polyèdres dans les maladies à ultravirus d'insectes. Bull. Microsc. appl. (France) 2 (ser. 2). 1952, 21—22.

Weiser, J., and **Rosický, B.,** Nosematosis of Otiorrhynchus ligustici. I—II. Vestn. českosl. zool. Společn. (Mém. Soc. zool. tchécosl.), Praha, 15. 1952, 209—234.

Erfolgreiche Virusinfektion von Schadinsekten. (Ref.) Schädlingsbekämpfung 44. 1952, 42.

Bacteriophyta

(Siehe auch — see also — voyez aussi p. 331.)

Dutky, S. R., and **Gooden, E. L.,** Coxiella popilliae, n. sp., a Rickettsia causing blue disease of Japanese beetle larvae. J. Bact., Baltimore, 63. 1952, 743—750, 10 fig.

Faldini, J. D., and **Pastrana, J. A.,** »Bacillus thuringiensis« como agente entomofage do »Colias lesbia«. Rev. argent. Agron. 19. 1952, 154—165.

Hawley, I. M., Milky diseases of beetles. US Dept. Agric. Yearb. Agric. 1952, 394—401, 1 fig.

Reed, M. S., Biology wins out; soil inoculation with milky disease is advised to kill off Japanese beetle grubs. Organic. Gardg. 20. 1952, 40.

Steinhaus, E. A., Microbial infections in European corn borer (Pyrausta nubilalis) larvae held in the laboratory. J. econ. Ent. 45. 1952, 48—51.

Stephens, J. M., Disease in codling moth larvae produced by several strains of Bacillus cereus. [Cydia (Carpocapsa) pomonella] Canad. J. Zool. 30. 1952, 30—40, 1 fig., 1 tab.

Vasudeva, R. S., Jain, A. C., and **Nema, K. G.,** Investigations of the inhibitory action of Bacillus subtilis on Fusarium udum Butl., the fungus causing wilt of pigeonpea (Cajanus cajan (L.) Millsp.). Ann. appl. Biol. 39. 1952, 229—238.

Weyer, F., Die künstliche Infektion von Kleiderläusen [Pediculus humanus] und Mehlkäferlarven [Tenebrio molitor] mit Rickettsia conori (Zeckenbißfieber). Acta trop., Basel, 9. 1952, 170—183.

Wille, H., und **Martignoni, M. E.,** Vorläufige Mitteilung über einen neuen Krankheitstypus beim Engerling von Melolontha vulgaris F. Schweiz. Ztschr. allg. Path., Bakt., Basel u. Leipzig, 15. 1952, 470—474.

Fungi

(Siehe auch — see also — voyez aussi p. 331.)

Akaishi, Y., and **Sekiguchi, T.,** (Control of peach fruit moth by using of fungi.) J. Plant Prot., Tokyo, 36. 1952, 253—255.

Bawden, F. C., and **Freeman, G. G.,** The nature and behaviour of inhibitors of plant viruses produced by Trichothecium roseum Link. J. gen. Microbiol. 7. 1952, 154—168.

Benjamin, R. K., and **Shanor, L.,** Sex of host specificity and position specificity of certain species of Laboulbenia on Bembidion picipes. [L. vulgaris, L. perpendicularis, L. truncata, L. tapirina, L. odobena, L. bembidio-palpi] Amer. J. Bot. 39. 1952, 125—131, 19 fig.

Buchli, H. H. R., Antennopsis gallica, a new parasite on termites. Trans. IXth int. Congr. Ent., Amsterdam, 1 (1951). 1952, 519—524, 3 fig.

Dixon, S. M., Predacious fungi from rotten wood. Trans. brit. mycol. Soc. 35. 1952, 144—148, 3 fig.

Drechsler, Ch., Another nematode-strangulating Dactylella and some related Hyphomycetes. Mycologia, Lancaster, 44. 1952, 533—556, 6 fig.

Egle, K., Tierfangende Pilze — »Außenseiter« des Pflanzenreichs. Umschau 52. 1952, 135—137, 5 Abb.

Fedorinčik, N. S., (Virulenz und Wirksamkeit einer Kultur des Rostparasiten Darluca filum (Biv.) Cast.) Mikrobiologiia, Moskwa, 21. 1952, 711—717.

Fraser, L. R., A disease of a scale insect. [Harpographium corynelioides on Calcioccus (i. e. Callococcus) leptospermi] Austr. Plant Dis. Recorder 4. 1952, 39.

Iwade, I., Fukuzumi, T., and **Yanagawa, R.,** (Studies on antagonism of »Shiitake«, Cortinellus edodes (Berk.) Sawada, against wood-rotting fungi. Bull. Tokyo Univ. Forests 43. 1952, 111—126.

Kamat, M. N., Patel, M. K., and **Dhande, G. W.,** Occurrence of the green muscardine fungus on Pyrilla sp. in Bombay. [Metarrhizium anisopliae] Curr. Sci., Bangalore, 21. 1952, 317.

Lepori, L., Una micosi delle larve di Thaumetopea pityocampa Schiff. Not. Mal. Piante nr. 19. 1952, 77—79.

Mařan, J., (Beauveria brumpti Langeron (1934) comme parasite des insectes.) [parasitic on Tenebrio molitor, Sitophilus granarius and Ephestia kühniella] Věstn. českosl. zool. Společ. (Mém. Soc. zool. tchécosl.), Praha, 1948, 89—96.

Michelbacher, A. E., and **Middlekauff, W. W.,** Fungus on codling moth (Carpocapsa pomonella); fungus disease in overwintering stages of the walnut pest found to be an important natural controlling agent. Calif. Agric., Berkeley, 6. 1952, nr. 3, p. 13.

Misra, A. P., Aspergillus flavus Link, a parasite of the desert locust (Schistocerca gregaria Forsk.). Curr. Sci., Bangalore, 21. 1952, 225

Schaerffenberg, B., Die Möglichkeiten einer Maikäferbekämpfung mit Hilfe von Mykosen. I. Beauveria densa Link, ein Hauptparasit von Melolontha sp. Anz. Schädl.kunde 25. 1952, 166—170, 4 Abb.

Schimitschek, S., Ein neuer entomophager Pilz an Dreyfusia Nüsslini C. B. Anz. Schädl.kunde 25. 1952, 115—116, 1 Abb.

Steinhaus, E. A., Microbial infections in European corn borer larvae held in the laboratory J. econ. Ent. 45. 1952, 48—51.

Sussman, A. S., Studies of an insect mycosis. IV. The physiology of the host-parasite relationship of Platysamia cecropia and Aspergillus flavus. Mycologia, Lancaster, 44. 1952, 493—505, 5 fig.

Weiser, J., Cizopasníci housenek zaviječe slunečnicového Homoeosoma nebulella Hbn. se zvlastním zřetelem na druh mattesia povolnyi sp. n. (Parasiten der Raupen der Sonnenblumenmotte, Homoeosoma nebulella Hbn. mit besonderer Rücksicht zur Art Mattesia povolnyi sp. n.) Zool., ent. Listy (Folia zool., ent.), Brno (CSR), 1. 1952, 252—264, 4 fig., 4 tab.

Nematodes

Bull, P. C., Distribution of the nematode Trichostrongylus retortaeformis (Zeder, 1800) in the wild rabbit, Oryctolagus cuniculus (L.). New Zealand J. Sci., Technol. (B) 34. 1952, 449—456, 1 fig.

Koerner, H., Die Nematodenfauna des vergehenden Holzes und ihre Beziehung zu Insekten. Diss. Erlangen 1952.

Arthropoda

Aburto, V. H., El control biológico de los insectos mediante el use de predatores. Campo, Tacuba, 20 (ser. 2). 1952, nr. 727, p. 6, 8, 10, 12, 14, 16—19.

Alexander, C. P., Undescribed species of nematocerous Diptera. I. [in Trichocera, Philorus, Blepharocera and Curupira] Bull. Brooklyn ent. Soc. 47. 1952, 88—94.

Auber, J., Note sur un diptère pupipare, ses parasites et hyperparasites. Entomologiste, Paris, 8. 1952, 90—91.

Baggiolini, M., Un nouveau parasite de la tordeuse orientale du pêcher (Laspeyresia molesta Busk.): Lissonota buolianae Hart. (Hym. Ichn.). Mitt. schweiz. ent. Ges. 25. 1952, 260—262, 2 fig.

Beard, R. L., The toxicology of Habrobracon venom: A study of a natural insecticide. Connecticut agric. Exp. Stat. Bull. 562. 1952, 27 p., 11 fig.

Benlloch, M., Los insectos útiles en la lucha contra las plagas. Agricultura, Madrid, 21. 1952, 253—256.

Birkett, N. L., Moths and wasps. [wasps as predators of moths] Ent. Rec., J. Variation 64. 1952, 242—243.

Bishopp, F. C., Insect friends of man. US Dept. Agric. Yearb. Agric. 1952, 79—87, 3 fig.

Bishopp, F. C., Pest control with insects. Acco Press 30. 1952, nr. 3. p. 1—4.

Blanton, F. S., The results of several years collecting parasitic flies (Diptera, Tachinidae). J. New York, ent. Soc. 60. 1952, 225—235.

Blunck, H., Zur Kenntnis der Hyperparasiten von Pieris brassicae L. 4. Beitrag: Gelis cf. transfuga Först. 5. Beitrag Hemiteles Hgm. simillimus sulcatus, die Metamorphose. 6. Beitrag: Gelis corruptor Först. und Gelis faunus Först. Ztschr. angew. Ent. 33. 1952, 217—267, 26 Abb.; 421—459, 43 Abb. — Beitr. Ent., Berlin, 2. 1952, 94—109, 3 Abb.

Borg, Å., Undersökningar över Aphelinus mali Hald. — blodlusens (Eriosoma lanigerum Hausm.) speciella parasit. (Investigations on Aphelinus mali Hald., the special parasite of the woolly aphis (Eriosoma lanigerum Hausm.).) Stat. Växtskyddsanst., Stockholm, Meddelnr. 60. 1952, 75 p., 21 fig.

Bosq, J. M., Enumeracion de predatores observados en la Republica Argentinia (Coleopteros y Hemipteros). Publ. Inst. Sanid. veg., Buenes Aires, 8. 1952, nr. A 54, 28 p.

Bouchet, R., and **Desbois, A.,** Les parasites du colza; biologie et moyens de lutte. Cah. Ing. agron., Paris, 7. 1952, 21—30.

Box, H. E., The biological control of insect pests of sugar-cane, with special reference to the West Indian region. Proc. agric. Soc. Trinidad-Tobago 52. 1952, 183—185, 187—189, 191—193, 195—197, 199—200.

Breny, R., et **Bollaerts, D.,** Pediculoïdes ventricosus Newport: Un acarien prédateur polyphage. [Tineola biselliela] Bull. Inst. agron., Stat. Rech. Gembloux 20. 1952, 23—32, 8 fig.

Büch, C., Feinde der Blattläuse. Saarl. Bauernbl. 6. 1952, 187.

Burks, B. D., Insects and their enemies. Organic. Farmer 4. 1952, nr. 3. p. 24—25, 47—50. — US Dept. Agric. Yearb, Agric. 1952, 373—380, 5 fig.

Burks, B. D. A new mealybug parasite (Hymenoptera: Encyrtidae). [Anathrix n. g.] J. New York ent. Soc. 60. 1952, 179—182.

Čakar, L., (Some data about Anastatus disparis R., the egg parasite of gypsy moth.) Saschtita Bilja (Plant Prot.), Beograd, nd. 9. 1952, 13—26, 4 tab.

Campbell, W. V., and **Hutchins, R. E.,** Toxicity of insecticides to some predaceous insects on cotton. J. econ. Ent. 45. 1952, 786—789.

Catalina, L., La lucha contra los insectos. [biological control] Cultivador mod., Barcelona, 35. 1952, 456.

Chen, C. B., Wong, S. S., and **Hung, S. S.,** (Tests of the reproduction of the thirteen spotted lady bird beetle [Synonycha grandis Thunberg] and its release for the control of the sugar-cane woolly aphis [Oregma lanigera Zehntner.] J. Sugar Cane Res., Taiwan, 6. 1952, 217—226.

Chiaromonte, A., (À propos of Empoasca facialis Jac. and of Anagrus scassellatii Paoli.) [The latter a parasite of the ova of the former. Reference is made to effects on the cotton plant] Riv. Agric. subtrop., trop., Firenze, 46. 1952, 341—343.

Clancy, D. W., Marucci, P. E., and **Dresner, E.,** Importation of natural enemies to control the oriental fruit fly in Hawaii. J. econ. Ent. 45. 1952, 85—90.

Clancy, D. W., and **Pollard, H. N.,** The effect of DDT on mite and predator populations in apple orchards. J. econ. Ent. 45. 1952, 108—114, 4 fig.

Clark, A. M., and **Beiser, W. C.,** Differential sensitivity of haploid and diploid embryos of Habrobracon to the nitrogen mustards. Genetics 37. 1952, 574 (Abstr.).

Clark, A. M., and **Mitchell, C. J.,** Effects of X-rays upon haploid and diploid embryos of Habrobracon. Biol. Bull. Marine biol. Lab., Wood's Hole (Mass.), 103. 1952, 170—177.

Clausen, C. P., Biological control of insect pests. Calif. Citrogr. 37. 1952, 182, 204—206.

Clausen, C. P., Parasites and predators. US Dept. Agric. Yearb. Agric. 1952, 380—388, 1 fig.

Collyer, E., Biology of some predatory insects and mites associated with the fruit tree red spider mite (Metatetranychus ulmi (Koch) (i. e. Paratetranychus pilosus)) in south-eastern England. I. The biology of Blepharidopterus angulatus (Fall.) (Hemiptera-Heteroptera, Miridae). J. hortic. Sci., London, 27. 1852, 117—129.

Cumber, R. A., The establishment in New Zealand of Microphanurus basalis Woll. (Scelionidae: Hym.), egg-parasite of the green vegetable bug, Nezara viridula L. (Pentatomidae). New Zealand J. Sci., Technol. (B) 34. 1952, 267—269.

Cumber, R. A., Studies on Oliarus arkinsoni Myers (Hem. Cixiidae), vector of the »yellow-leaf« disease of Phormium tenax Forst. I. Habits and environment, with a note on natural enemies. II. The nymphal instars and seasonal changes in the composition of nymphal populations. New Zealand J. Sci., Technol. (B) 34. 1952, 92—98, 2 fig.; 160—165, 8 fig.

Cunliffe, F., Biology of the cockroach parasite, Pimeliaphilus podapolipophagus Tragardh. with a discussion of the genera Pimeliaphilus and Hirstiella (Acarina, Pterygosomidae). Proc. ent. Soc. Washington 54. 1952, 153—169.

Dean, H. A., Lady beetle kills cottony cushion scale. [Icerya purchasi controlled by Rodolia cardenalis] Texas Farming, Citricult. 29. 1952, nr. 5, p. 12—13.

Dean, H. A., Natural enemies of scale insects in the Lower Rio Grande Valley of Texas. Proc. Rio Grande Valley hortic. Inst. 6. 1952, 38—41.

DeBach, P., Biological control of red scale in San Diego County. [Aonidiella aurantii by Aphytis chrysomphali and Comperiella bifasciata] Calif. Citrogr. 37. 1952, 136—137, 158—160.

DeBach, P., California red scale. [Aonidiella aurantii] Study of prospects for biological control of pest in orange and lemon groves of San Diego County. Calif. Agric., Berkeley, 6. 1962, 8, 12.

Delucchi, V., Microctonus Emmae n. sp. (Hymenoptera Braconidae) parassita degli adulti di Longitarsus albineus Foudr. in Puglia. »Redia«, Giorn. Ent., Firenze, 37 (2. ser.). 1952, 179—186, 4 fig.

Dharmaraju, E., The biological control of the black headed caterpillar of coconut (Nephantis serinopa M.) in the East Godavari district of Madras State. Indian Coconut J. 5. 1952, 171—176.

Dicker, G. H. L., Studies in population fluctuations of the strawberry aphid, Pentatrichopus fragaefolii (Cock.) I. Enemies of the strawberry aphid. East Malling Res. Stat. Ann. Rept. 39 (1951). 1952, 166—168.

Dosse, G., Wirkung von DDT-, Ester, und Hexa-Präparaten auf Coccinella septem-punctata L. bei der Blattlausbekämpfung. Mitt. Biol. Zentralanst. H. 74. 1952, 125—127.

Doutt, R. L., Biological control of Planococcus citri on commercial greenhouse Stephanotis. J. econ. Ent. 45. 1952, 343—344.

Dowden, Ph. B., The importance of coordinating applied control and natural control of forest insects. J. econ. Ent. 45. 1952, 481—483.

Dupuis, C., Sur une larve d'hymenoptere braconide parasite de pentatomides (Hem. Heteroptera). Trans. IXth int. Congr. Ent., Amsterdam, 1 (1951). 1952, 539—540.

Eddy, B., What good are insects? Outdoors illustr. (Canada) 4. 1952, 71—75.

Edmunds, I. R., The oviposition of Prosevania punctata (Brulle): a hymenopterous parasite of cockroach egg capsules. Ohio J. Sci. 52. 1952, 29—30.

Elton, E. T. G., Verbetering van de mierenstand onzer bossen. [Formica rufa] (Verbesserung des Ameisenbestandes unserer Wälder.) TNO-Nieuws (Org. toegepast-natuurwetensch. Onderz.), Amsterdam, 7. 1952, nr. 70, p. 43—44, 2 fig.

Evans, G. O., A new typhlodromid mite predaceous on Tetranychus bimaculatus Harvey in Indonesia. [Typholodromus longispinosus on Tetranychus bimaculatus on Manihot utilissima] Ann., Mag. natural Hist., London, 5. 1952, 413—416, 2 fig.

Evenhuis, H. H., (On the control of insects by natural enemies.) Friutteelt, Arnhem, 42. 1952, 948—949, 959.

Fenton, F. A., and **Dahms, R. G.,** Attemps åt controlling the greenbug Toxoptera graminum by the importance and release of lady beetles Hippodamia convergens in Oklahoma. Proc. Oklahoma Acad. Sci. 32, 1952, 49—51.

Ferrière, Ch., A new genus of Pteromalidae (Hym.), parasitic on the alder wood-wasp, Xiphydria camelus L., found in Norfolk, England. Ent.'s mon. Mag., London, 87. 1952, 322—324, 2 fig.

Ferrière, Ch., Les parasites de »Lithocolletis platani« en Italie. Boll. Ist. Ent. Univ. Bologna 19. 1952, 395—404, 4 fig.

Ferrière, Ch., Les parasites de Lyonetia clerckella. Trans. IX. int. Congr. Ent., Amsterdam, 1 (1951). 1952, 593—596.

Ferrière, Ch., Parasites de Lyonetia clerckella en Valais (Hym. Chalcidoidea). Mitt. schweiz. ent. Ges. 25. 1952, 29—40, 8 fig.

Fisher, F. E., Diseases of scale insects. Citrus Mag. 15. 1952, 25—26.

Flanders, St. E., Biological abservations on parasites of the black scale. [Saissetia oleae, Hymenoptera for control] Ann. ent. Soc. Amer. 45. 1952, 543—549.

Flanders, St. E., New purple scale parasite, a second natural enemy of citrus pest established in California may be effective in low host infestations. [Physcus sp.] Calif. Agric., Berkeley, 6. 1952, nr. 5, p. 10, 14.

Flanders, St. E., Watch out, Mrs. Purple Scale. [Phycus sp. on Lepidosaphes beckii] Citrus Leaves 32. 1952, nr. 4, p. 9, 28.

Fleschner, Ch. A., Dustywings on citrus in California. [Parasemidalis, Conwentzia, Coniopteryx, Malacomyza on citrus mites] Calif. Citrogr. 37. 1952, 296, 298.— Citrus Leaves 32. 1952, nr. 5, p. 20.

Fleschner, Ch. A., Dustywings [Parasemidalis flaviceps] on citrus; these natural enemies of mites and scales may be helped by miticides but are killed by insecticides. Calif. Agric., Berkeley, 6. 1952, nr. 7.

Fleschner, C. A., New citrus red mite enemies from the Orient. [Stethorus spp. and unindentified Staphylinid beetle against Paratetranychus citri] Calif. Citrogr. 37. 1952, 159.

Friederichs, K., Über karnivore Elateridenlarven und ihre Bedeutung im Pflanzenschutz. Ztschr. angew. Ent. 33. 1952, 168—172.

Fullaway, D. T., Fruit fly parasites collected in Queensland by N. L. H. Krauss in 1949 (Hymenoptera: Braconidae). Proc. hawaii. ent. Soc. 14 (1949). 1950, 65—67.

Gäbler, H., Schädliche und nützliche Insekten des Waldes. Neumann Verl., Radebeul/Berlin 1952. 2. Aufl., 96 S., zahlr. Abb.

Gardiner, B. O. C., Wasps attacking Pieris brassicae L. Ent. Rec., J. Variation 64. 1952, 355.

Geier, P., und Baggiolini, M., Malacocoris chlorizans Pz. (Hem. Het. Mirid.), ein Feind phytophager Milben. Mitt. schweiz. ent. Ges. 25. 1952, 257—259, 3 fig.

Gerritsen, J. D., (The natural enemies of the fruit trees spinning mite (Pyrytetranychus pilosus).) Fruitteelt, Arnhem, 42. 1952, 27.

Given, B. B., General report on a search for parasites of Melolonthinae in Australia. New Zealand J. Sci., Technol. (B) 34. 1952, 322—340, 6 fig.

Gößwald, K., Die Rote Waldameise und ihre Vermehrung im Dienste der Waldhygiene (mit Film über die Massenzucht von Königinnen und Kolonievermehrung). Trans. IXth int. Congr. Ent., Amsterdam, 1 (1951). 1952, 700—704, 1 fig.

Gößwald, K., Über die ökologische Bereinigung von Schädlingsplagen im Walde mit Hilfe der Roten Waldameise. Naturwissenschaften 39. 1952, 97—99.

Goidànich, A., (Biological forest protection.) [chiefly insect pests] Ric. sci., Roma, 22. 1952, 161—168.

Goidànich, A., (A lance for the ants.) [habits and behavoir] Giorn. agric., Roma, 62. 1952, 253.

Goldman, M. C., Ladybug, ladybug [Hippodamia convergens], don't fly away. [biological control of insect pests] Organic Gardg. 20. 1952, nr. 12, p. 12—13, 55—56.

Gómez Clemente, F., Estado actual de la lucha biológica contra algunas cochinillas de los agrios. (Pseudococcus citri y Pericerya purchasi.) Bol. Pat. veg., Ent. agríc., Madrid, 19. 1951—52, 19—35, 13 fig.

Gómez Clemente, F., Los insectos auxiliares en la lucha contra los nocivos a los agrios. Bol. Pat. veg., Ent. agríc., Madrid, 19. 1951—52, 1—18, 8 fig.

Gothe, H., Die Rote Waldameise im Dienste der Waldhygiene. (Zugleich Besprechung des gleichnamigen Buches von **K. Gößwald.**) Allg. Forstztschr. 7. 1952, 178—179.

Green, J., A coccidian infecting Cylindronotus laevioctostriatus (Goeze) (Col., Tenebrionidae). Ent.'s mon. Mag., London, 88. 1952, 207—208.

Grosch, D. S., The spinning glands of impaternate (male) Habrobracon larvae: morphology and cytology. J. Morph. (and Physiol.), Philadelphia, 91. 1952, 221—236.

Grosch, D. S., and Sullivan, R. L., The effect of ingested radiophosphorus on egg production and embryo survival in the wasp Habrobracon. Biol. Bull., Wood's Hole (Mass.), 102. 1952, 128—140.

Gurney, A. B., Praying mantids of the United States, native and introduced. Smiths. Inst. Ann. Rept. 1950. 1951, 339—362, 9 tab.

Györfi, J., Die Schlupfwespen und der Unterwuchs des Waldes. Ztschr. angew. Ent. 33. 1952, 32—46.

Hafez, M., and El-Ziady, S., On the histology of the alimentary canal of Hyperaspis vinciguerrae Capra. [Coleoptera: Coccinellidae] Bull. Soc. Fouad I^er^ Ent., Le Caire, 36 (45). 1952, 293—310, 22 fig.

Hafez, M., and El-Ziady, S., On the morphology of Hyperaspis vinciguerrae Capra. [Coleoptera: Coccinellidae] Bull. Soc. Fouad I^er^ Ent., Le Caire, 36 (45). 1952, 247—291, 65 fig.

Hafez, M., and El-Ziady, S., Studies on the biology of Hyperaspis vinciguerrae Capra, with a full description of the anatomy of the fourth stage larva. Bull. Soc. Fouad I^er^ Ent., Le Caire, 36 (45). 1952, 211—246, 23 fig.

Heidenthal, G., X-ray induced recessive lethals in Habrobracon. Genetics 37. 1952, 590 (Abstr.).

Hickman, J. M., Fighting bugs with bugs. Organic Farmer 3. 1952, nr. 12, p. 18.

Hölldobler, K., Über eine Milbenschädigung der Roßameise (Camponotus herculeanus), die durch eine Fehlreaktion des Wirtes wirksam wird. Ztschr. angew. Ent. 33. 1952, 104—107.

Hofeneder, K., Verzeichnis der Strepsiptera und ihrer Wirte. (Nachtrag.) Beitr. Ent., Berlin, 2. 1952, 473—521.

Hussey, N. W., A braconid (Hym.) parasite of Ochina ptinoides Marsh. (Col., Anobiidae). Ent.'s mon. Mag., London, 88. 1952, 201.

Hussey, N. W., New records of Megastigmus (Hymenoptera Chalcididae) in Scotland with a note on the first recorded parasites of Megastigmus spermotrophus Wachtl. Scot. Forestry 6. 1952, 53—55.

Husson, R., Attaque des pinèdes de la Sarre par l'insecte Neodiprion sertifer Geoffroy (Lophyrus rufus: Hymenoptera). Ann. Univ. Saraviensis 1. 1952, nr. 1, p. 71—79, 4 fig.

Iren, Z., Türkiye'de yeni bulunan Hyponomeuta padella L. ve Carpocapsa (Cydia) pomonella L. parazitleri. (The native parasites of small ermine moth and codling moth larvae in Ankara (Turkey).) Bitki Koruma Bült. (Bull. Plant Prot.), Ankara, 1952, nr. 4, p. 16—18.

Jansson, A., (Studien über schwedische Chalcididen. 2. Aus minierenden Kleinfliegen und Kleinschmetterlingen geschlüpfte Arten.) 3. Hatched species. Opusc. Ent., Lund, 17. 1952, 1—10 — . Ent. Tidskr. 73. 1952, 178—182.

Jolivet, P., and **Theodorides, J.,** Les parasites, phorétiques et prédateurs des Chrysomeloidea (Coleoptera). 3. Bull. Inst. R. Sci. naturelles Belg. 28. 1952, nr. 20, p. 1—19.

Judd, W. W., Cacoecia melaleucana Walker (Lepidoptera: Tortricidae) and its hymenopterous parasites reared from Trillium grandiflorum (Michx.) Salisb. Trans. amer. microscop. Soc., Lancaster (Pennsylv.), 71. 1952, 125—128.

Julliard, Ch., Le parasitisme des chrysalides de Vanessa urticae en Valais et au Saentis. Mitt. schweiz. ent. Ges. 25. 1952, 49—55.

Junqueira, G. M., (Biological control of the sugar-cane borer (Diatraea saccharalis).) Seleç. agric. (Brasil) 7. 1952, nr. 70, p. 15—16.

Keilbach, R., Chrysopidenlarven — als gelegentliche Vertilger von Kartoffelkäfereiern. Nachr.bl. dtsch. Pfl.schutzd., Berlin, NF. 6. 1952, 14, 1 Abb.

Kern, W., Der Goldschmied, Carabus auratus L., ein Maikäferfeind. Urania, Wien, 15. 1952, 157—159.

Keyder, S., Diaspis pentagona'ya karşi parazit mücadelesi. (Bekämpfung von Diaspis pentagona mit Parasiten.) Tomurcuk, Istanbul, 1952, nr. 6, p. 9.

Krumschmidt-Weka, W., Künstliche Ameisenvermehrungen. Einrichtung von Zuchtstationen im Fürstl. Ysenburg und Büdingischen Privatforstbereich. Allg. Forstztschr. 7. 1952, 455.

Lamb, K. P., Two braconid parasites of clothes moths. New Zealand Entomologist 1. 1952, nr. 2. p. 8—9.

Lloyd, D. C., Biological observations on some Thynnids of western Patagonia. [Elaphroptera scoliaeformis, E. (Paralycus) sp. near nigripennis, Pseudelaphroptera brevipilosa, Aulacopalpus pilicollis, Macrosoma glacialis, Adioristus acuminatus] Bull. ent. Res. 42. 1952, 707—719, 3 fig., 2 tab.

Lodos, N., Türkiye'de Yeni bir süne paraziti: Alophora (Phorantha) supcoleopterata L. (Un nouveau parasite de Eurygaster integriceps (Souné) en Turquie, Alophora (Phorantha) subcoleopterata L.) Bitki Korum Bült. (Bull. Plant Prot.), Ankara, 1952, nr. 2, p. 23—26, 3 fig.

Luteršek, D., (Beitrag zur Kenntnis der Biologie des Calosoma sycophanta L. und Calosoma inquisitor L. als Feinde des Schwammspinners (Lymantria dispar L.).) Bull. Coll. Forestry Univ. Belgrad 1. 1950, 353—365.

Marikowskij, P. I., (Die Tamariskenmotte Amblypalpis tamaricella Dan. und die Diapause ihres Parasiten.) Zool. Žh. (Zool. J.) 31. 1952, 673—675.

Narayanan, E. S., and **Venkatraman, T. V.,** Technique of mass multiplication of Stenobracon deesae (Cam.) Hymenoptera: Braconidae for use against sugar-cane and maize borers. Proc. indian Acad. Sci. (Sect. B) 36. 1952, 12—18.

Nikitiuk, A. I., (Predatory and parasitic insects as regulators of the damaging activity and spread of bark beetles in a coniferous forest. Communication II.) Bull. Otd. Biol. Obshch. Isp. Prirody, Moskwa, 57. 1952, nr. 5, p. 40—44.

Ogloblin, A., Ele presente estado del parasitismo de la langosta por las moscas, Acridiophage caridei (Brethes). In: Comité Interamericano Permanente Antiacridiano. Sesión Extraordinaria (Buenos Aires 1952), p. 165—171.

Olberg, G., Die Sandwespen (Ammophila und Podalonia). N. Brehm-Bücherei (Akad. Verl. ges. Geest & Portig, K.-G., Leipzig) H. 68. 1952, 58 S., 53 Abb.

Olberg, G., Die Schmarotzerwespe Ceropales maculatus. Urania 15 (6, Sup. pl.). 1952, 8 S.

Perkins, J. F., European, and reputed British, Ichneumonidae in the Sir Joseph Banks collection. Entomologist, London, 85. 1952, 66—68.

Perron, J. P., and **Lafrance, J.,** A note on a dipterous predator of the onion maggot, Hylemya antiqua (Meig.). [Coenosia tigrina] Canad. Entomologist 84. 1952, 112.

Pielou, D. P., and Glasser, R. F., Selection for DDT resistance in a beneficial insect parasite. [Macrocentrus ancylivorus] Science, Lancaster, 115. 1952, 117—118.

Price Gaviria, C., Notas preliminares sobre los insectos benéficos que afectan al Heliothis virescens F. Vida agric., Lima (Perú), 29. 1952, 289, 291, 293, 295—296.

Prihoda, A., Užitećnost mouchy Thereva nobilitata Fabr. v lesnictvi. (Die Nützlichkeit der Fliege Thereva nobilitata Fabr. für die Forstwirtschaft.) Lesn. Práce (Oeuvre Forest.), Pisek, 31. 1952, 129—132.

Qadri, M. A. H., Forest protection with biological control in Pakistan. Pakistan J. Forestry 2. 1952, 244—250.

Rawlings, G. B., Progress in establishment of Ibalia leucospoides, a parasite of Sirex noctilio, the horntail borer of pine. New Zealand Sci. Rev. 10. 1952, 107—108.

Reeks, W. A., Establishment of Exenterus spp. (Hymenoptera: Ichneumonidae), parasites of the European spruce sawfly (Diprion hercyniae), near points of introduction. Canad. Entomologist 84. 1952, 76—86.

Rhodes, N., Friend or foe. [insects] Bull. Sale, Want. Exch. (Florida State Marktg. Bur.) 6. 1952, nr. 12, 1.

Riherd, P. T., Imported parasite checks Rhodes grass pest. [Antonina graminis] South Seedman (Texas) 15. 1952, nr. 9, p. 22.

Risbec, J., Les Microgasteridae d'AOF. [Apanteles] Bull. Inst. franc. Afr. noire, Paris, 14. 1952, 701.

Robinson, A. G., Annotated list of predators of tetranychid mites in Manitoba. Ontario ent. Soc. Ann. Rept. 82 (1951). 1952, 33—37.

Rywkin, B. W., (Parasites of Dendrolimus pini in Eastern Polesye.) Dokl. Akad. Nauk SSSR 84. 1952, 853—856.

Sachtleben, H., Die parasitischen Hymenopteren des Fichtenborkenkäfers Ips typographus L. Beitr. Ent., Berlin, 2. 1952, 137—189.

Scaramuzza, L. C., La »mosca cubana« (Lixophaga diatraeae) en el control biológico del barreno de la caña de azúcar (Diatraea saccharalis). Vida agric., Lima (Perú), 29. 1952, 479, 483—484.

Schmutterer, H., Plastophora rufa (Wood) (Dipt., Phoridae) als Eiräuber und Parasit von Eulecanium corni (Bché.) (Homopt., Coccoïdea). Anz. Schädl.kunde 25. 1952, 145—148, 12 Abb.

Schmutterer, H., Zur Lebensweise der Nadelholz-Diaspidinen (Homoptera, Coccoïdea, Diaspididae, Diaspidinae) und ihrer Parasiten in den Nadelwäldern Frankens. Ztschr. angew. Ent. 33. 1952, 111—136, 11 Abb.

Schneider, F., Einige physiologische Beziehungen zwischen Syrphidenlarven und ihren Parasiten. Ztschr. angew. Ent. 33. 1952, 150—162, 6 Abb.

Smirnoff, W. A., Observations sur les ennemis naturels des cochenilles des agrumes au Maroc. Fruits, Primeurs Afr. Nord, Casablanca, 22. 1952, 89—93.

Smith, G. A., Such insects as plant lice and scale make up the main course in the diet of our friend the ladybug (Coccinellidae). Pennsylv. Farmer 146. 1952, 470—471.

Smith, O. J., Biology and behavior of Microctonus vittatae Muesebeck (Braconidae), with descriptions of its immature stages. Calif. Univ. Publ. Ent. 9. 1952, 315—343.

Smith, O. J., The biology of Microctonus vittatae Muesebeck, a braconid parasite of adult flea beetles, with particular reference to Phyllotreta striolata (Fabricius). Ohio State Univ. Abstr. Doct. Diss. 63. 1952, 339—344.

Smith, R. O. A., Varma, M. G. R., and Bhattacharya, K. P., Control of fungal growth by earthworms (Trombicula deliensis). Curr. Sci., Bangalore, 21. 1952, 69—70.

Steel, W. O., House-flies as enemies of locusts in captivity. Entomologist's Monthly Magazine 84. 1948, 259.

Strojny, W., (Panorpa communis L. (Panorp., Panorpidae) — predator on Melolontha melolontha L. (Col. Scarab.).). Polskie Pismo ent. (Bull. ent. Pologne), Lwów, 21. 1952, 145—146.

Szumkowski, W., Observations on Coccinellidae. I. Coccinellids as predators of lepidopterous eggs and larvae in Venezuela. II. Experimental rearing of Coleomegilla on a non-insect diet. Trans. IXth int. Congr. Ent., Amsterdam, 1 (1951). 1952, 778—781, 3 fig.; 781—785, 4 fig.

Ullyett, G. C., Distribution of progeny by Chelonus texanus Cress. (Hymenoptera: Braconidae). [parasite of Ephestia kühniella] Canad. Entomologist 81. 1949, 25—44.

Van den Bosch, R., Oriental fruitfly [Dacus dorsalis] parasites; biological control of damaging pest established in Hawaii diminishes threar to mainland's fruit production. Calif. Agric., Berkeley, 6. 1952, nr. 7, p. 13.

Van den Bosch, R., Oriental fruitfly (Dacus dorsalis) parasites in Hawaii. Citrus Leaves 32. 1952, nr. 6, p. 12.

Wellenstein, G., Chemische und biologische Schädlingsbekämpfung. Gedanken zu **K. Gösswald's** Buch »Die rote Waldameise im Dienste der Waldhygiene« (Lüneburg 1951. Forstarchiv 23. 1952, 69—70.

Wellenstein, G., Zur Ernährungsbiologie der Roten Waldameise (Formica rufa L.). Ztschr. Pfl.krankh. 59. 1952, 430—451, 6 Abb.

Whiting, A. R., and Borstel, R. C. v., Comparison of sensitivity to nitrogen mustard and X-rays of Habrobracon eggs and sperm. Genetics 37. 1952, 635—636 (Abstr.).

Wolf, D., Dont't put all your borers in the Lydella fly basket. Hoard's Dairyman 97. 1952, 24.

York, G. T., and Prescott, H. W., Nemestrinid parasites of grasshoppers. J. econ. Ent. 45. 1952, 5—10, 2 fig.

Zahradník, J., Larvy slunečka Hyperaspis campestris var. concolor Suffr. — Ničitelé některých druhů cervcu. (Note sur la biologie des larves d'Hyperaspis campestris var. concolor Suffr., prédatrice des coccides en Tchécoslovaquie.) Zool., ent. Listy (Folia zool., ent.), Brno (CSR). 1. 1952, 181—184, 6 fig.

Biologische Bekämpfung von Maisbohrern in den USA. (Ref.) Schädlingsbekämpfung 44. 1952, 41—42.

Cotton's beneficial insects. Cotton Gin, Oil Mill Press, Dallas (Texas), 53. 1952, 72—74. — Acco Press 30. 1952, nr. 3, p. 4, 14.

House spiders. US Bur. Ent., Plant Quar., Washington, 1949, 1 p.

Vertebrata

Aughanbaugh jr., J. E., Some beneficial forest birds. Pennsylv. Forests, Waters 4. 1952, 92—95.

Blackford, J. L., Guardians of the leaves. [Vögel als Insektenvertilger] Nature Mag., Baltimore, 45. 1952, 305—308.

Blümke, Schafhaltung bedeutet Schädlingsbekämpfung. Mitt. dtsch. Landw.-Ges., Berlin, 67. 1952, 651—653.

Boring, J., Birds are our allies. [for insect control] Oregon Farmer 4. 1952, 36, 38, 40—42.

Brooks, M., Starlings, Sturnus vulgaris, eating monarch butterflies (Danaus plexiopus). Auk, quart. J. Ornith., Cambridge (Mass.), 69. 1952, 89.

Buchholz, Zur Verteidigung des Schwarzwildes. [wilde Eber gegen Insektenschäden im Walde] Forst u. Holz 7. 1952, 8—9.

Frank, F., Sind Misteldrossel-Ausbreitung und Feldmaus-Massenwechsel gleichartige Erscheinungen? J. Ornithol., Berlin, 93. 1952, 353—356.

Gerber, R., Vögel als Vertilger von Pflanzenläusen. Vogelwelt 73. 1952, 117—123.

Hasenow, W., Fasanen sind wirtschaftlich von großem Nutzen. Schädlingsbekämpfung 44. 1952, 18.

Hasenow, W., Schützt die kleinen Raubtiere in Garten und Feld. Schädlingsbekämpfung 44. 1952, 17—18.

Henze, Das Ende der Eichenwicklersorgen. Allg. Forstztschr. 7. 1952, 531—533, 3 Abb.

Kalmbach, E. R., Birds, beasts, and bugs. US Dept. Agric. Yearb. Agric. 1952, 724—731.

Kumerloeve, H., Vom Lebensrecht des Wanderfalken. Naturschutz u. Landsch.pflege, Köln, 27. 1952, 34—37, 3 Abb.

Löhrl, H., Eulen als Mäusejäger. Bad. landw. Wochenbl. 119. 1952, 27.

Mansfeld, K., Biocönosestudien zur wirtschaftlichen Bedeutung der Vogelwelt im Bereich von Windschutzpflanzungen. (In: »Die Wissenschaft vom Vogel und die Volkswirtschaft«. Referate a. d. 2. Tagung der Ornithologen der Deutschen Demokratischen Republik, Jena 1951.) Kulturbund demokr. Erneuerg. Dtschl.'s, Zentr. komm. Ornith., Vogelsch., Berlin, 1952, 3 S.

Münch, H., Der Wiedehopf. Akad. Verl. ges. Geest & Portig K.-G., Leipzig 1952. 68 S., 20 Abb. (Neue Brehm-Bücherei H. 90).

Olberg, G., Tagfalter als Vogelnahrung. Natur u. Volk 82. 1952, 188—192, 3 Abb.

Petzsch, H., Verzehrt der Hase Mäuse? Anz. Schädl.-kunde 25. 1952, 43—45.

Podmore, P. S. M., Large-scale pest destroyers; strawnecked Ibis of immense value to Australian agriculturalists. Cage Birds, Bird Fancy (Engl.) 102. 1952, 621.

Pozo Lora, R., Revisión del catálogo de aves insectívoras, cuya caza está prohibida. Bol. Zootecn. 8. 1952, 133—142.

Przygodda, W., Kartoffelkäfer-Bekämpfung durch Vögel? Landw. Ztschr. Nord-Rheinprov. 119. 1952, 402—403.

Shephard, J. B., Birds — our natural allies; plant life on earth in danger of extermination by insects if not protected man's feathered friends. Farmers' Weekly, Bloemfontein, 84. 1952, 28—29.

Tschekalin, I. J., (Activity of starlings useful in nurseries.) [birds in insect control] Les i Step' (USSR) 4. 1952, 81—82.

Uttendörfer, O., Neue Ergebnisse über die Ernährung der Greifvögel und Eulen. Mit Ergänzungen von **G. Bodenstein** und **R. Kuhk.** E. Ulmer, Stuttgart z. Z. Ludwigsburg 1952. 230 S., 31 Abb., 1 Photo.

Vögel sind Pflanzenschutz-Truppen. Landw. Wochenbl. Kurh., Waldeck 167. 1952, 473.

Vogelschutz
Bird protection — Protection des oiseaux

Bruns, H., Die Bedeutung optischer Merkmale des Futterplatzes und des Futters für nahrungsuchende Meisen. Biol. Zentralbl. 71. 1952, 69—108, 9 Abb.

Gerber, R., Bemerkung zu der Arbeit von Kaven: Nistkastenreinigung, eine dringende Forderung. Kostbares Vogelleben schützen (in: Schädlingsbekämpfung 43. 1951, 62—63). Schädlingsbekämpfung 44. 1952, 15—16.

Gerber, R., Vogelschutz und Bienenzucht. Urania 15. 1952, 100—106.

Glanzmann, O., Obstbauern, denkt an die Meisen! Schweiz. Ztschr. Obst-, Weinbau 61. 1952, 204—205.

Hahn, W., Wie füttern wir im Winter unsere Vögel? Hannov. land-, forstw. Ztg. 105. 1952, 129.

Katsura, S., (Insect pests to forest and protection of wild birds.) (Nōrin Jihō (agric., Forestry Bull.) (Japan) 11. 1952, nr. 4, p. 15—17.

Löhrl, H., Brauchen wir noch Starenhäuschen? Württ. Wochenbl. Landw. 119. 1952, 12—13.

Mackenzie, J. M. D., The encouragement of birds in commercial plantations by nest boxes and other means. Scot. Forestry 6. 1952, 10—17.

Przygodda, W., Vogelwelt und Pflanzenschutzmittel. Bull. Ligue luxemb. Prot. Oiseaux 32. 1952, 538—545.

Ringleben, H., Die deutschen Vogelwarten und Vogelschutzwarten. Naturwiss. Rundschau 5. 1952, 500—502.

Tögel, Vogelschutz im Obstbau. Obst- u. Gartenbau, Stuttgart, 7. 1952, 11.

Vergnaud, M. H., Causes présumées de la raréfaction des oiseaux en France continentale et remèdes suggérés. Phytoma, Paris, 5. 1952, nr. 43, p. 31.

Heuwurmbekämpfung und Vogelschutz. Schweiz. Ztschr. Obst-, Weinbau 61. 1952, 264.

Die **Winterfütterung der Vögel** nicht vergessen! Obstbau 71. 1952, 187, 8 Abb.

Biologische Unkrautbekämpfung
Biological control of weeds
Lutte biologique contre les mauvaises herbes

Acheson, H. V. C., Will geese eat weeds? On skunk cabbage and other delicacies. Mag. Ducks, Geese 3. 1952, 15.

Barabasch-Nikiforow, I. I., i **Morosowa, S. W.,** Opyt primenenija nutrij dlja borby s wrednoj wodnoj rastitelnostju. (Versuch zur Verwendung der Nutria bei der Bekämpfung der schädlichen Wasserpflanzen.) Zool. Žh. (Zool. J.) 31. 1952, 443—456.

Barnes, H. F., The gall midges of St. John's Wort (Hypericum spp.), with descriptions of two new species. Bull. ent. Res. 42. 1952, 697—705, 4 fig.

Elam, F. L., Goats cleared our brush. West. Livestock J. 30. 1952, nr. 42, p. 37, 46, 51, 55.

Erisman, A., Weeds for hangman's rope, wart cures, and Sunday dinner. New York State Conservationist 6. 1952, nr. 4, p. 12—13.

Evans, J. W., The injurious insects of the British Commonwealth (except the British Isles, India and Pakistan), with a section on the control of weeds by insects. Commonw. Inst. Ent., London 1952. VII+242 p.

Holloway, J. K., and **Huffaker, C. B.,** Insects to control a weed. US Dept. Agric. Yearb. Agric. 1952, 135—140, 1 fig.

Huffaker, C. B., and **Kennett, C. E.,** Ecological tests on Chrysolina gemellata (Rossi) and C. hyperici Forst. in the biological control of Klamath weed. J. econ. Ent. 45. 1952, 1061—1064.

Penhallow, R., A commentary of biological control. Int. Grassland Conf. Abstr. Pap. 6 (C). 1952, 21.

Powell, T., A new science: biological weed control. Organic Farmer 3. 1952, nr. 7, p. 34—37.

Roonwal, M. L., The natural establishment and dispersal of an imported insect in India. — The Lantana Bug, Teleonemia scrupulosa Stål (= lantanae Distant; Hemiptera, Tingidae), with a description of its egg, nymphes and adult. J. zool. Soc. India 4. 1952, 1—16.

Scarseth, G. D., Can weeds be made useful? Country Gentleman, Philadelphia, 122. 1952, nr. 6, p. 8, 10.

Smith, J. M., Biological control of weeds in Canada. Proc. Canada nat. Weed Comm., East. Sect., 5 (1951). 1952, 95—97.

Sokoloff, V. P., Biological control of weeds in compacted soil cultures; successful laboratory experiments aimed to prevent germination of weeds in soil under asphalt cover. Commenw. Engin. (Australia) 39. 1952, 318—322.

West, E., Perizoma, a potential weed pest. (Perizoma rhomboidea] Florida agric. Exp. Stat. Circ. S-54. 1952, 4 p.

Antibiotica

(Siehe auch — see also — voyez aussi p. 324.)

Aiso, K., Arai, T., Shidara, I., Ogi, K., and **Tanaami, T.,** Studies on the Streptomyces antibiotics active against fungi and yeast. IV. J. Antibiotics (Japan) 5. 1952, 490—491.

Anderson, H. W., and **Gottlieb, D.,** Plant disease control with antibiotics. Econ. Bot., Lancaster, 6. 1952, 294—308.

Bentz, G., An antibiotic agent from Marasmius graminum. Ark. Kemi, Stockholm, 3. 1952, 495—500.

Berridge, N. J., and **Barrett, J.,** A rapid method for the turbidimetric assay of antibiotics. J. gen. Microbiol. 6. 1952, 14—20, 4 fig.

Bhide, V. P., Moniz, L., and **Patil, R. B.,** Actinomyces antibiotic to plant-pathogenic bacteria. Curr. Sci., Bangalore, 21. 1952, 70—71.

Brian, P. W., Antibiotics as systemic fungicides and bactericides. Ann. appl. Biol. 39. 1952, 434—438.

Bustinza, F., Antibacterial substances from lichens. Econ. Bot., Lancaster, 6. 1952, 402—406.

Cercós, A. P., Microorganismos antibióticos activos sobre fitopatógenos aislados en la Argentina. IDIA (Inform. Invest. agríc.), Buenos Aires, 5. 1952, nr. 54, p. 10—15.

Cercós, A. P., Substancia antibiótica volátil derivada de la fungocina. Ciencia e Invest., Buenos Aires, 8. 1952, 376.

Cooper, K. E., and **Gillespie, W. A.,** The influence of temperature on streptomycin inhibition zones in agar cultures. J. gen. Microbiol. 7. 1952, 1—7, 4 fig.

Crawford, K., Heatley, N. G., Boyd, P. F., Hale, C. W., Kelly, B. K., Miller, G. A., and **Smith, N.,** Antibiotic production by a species of Cephalosporium. J. gen. Microbiol. 6. 1952, 47—59, 1 fig., 1 tab.

Čurkić, J., (Antibiotics in plant protection.) Vojvodanski Poljoprivrednik (Yugoslavia) 8. 1952, nr. 12, p. 18.

Curtis, P. J., Hemming, H. G., and **Jefferys, E. G.,** Humicolin, an antifungal substance produced by Aspergillus humicola. Trans. brit. mycol. Soc. 35. 1952, 263—267.

Evans, E., and **Gottlieb, D.,** The role of gliotoxin in the soil. Phytopathology 42. 1952, 465—466.

Faivre-Amiot, A., Darpoux, H., et **Roux, L.,** Sur la production, l'extraction et les propriétés physico-chimiques de la chlamydosporine. Compt. rend. Acad. Sci., Paris, 235. 1952, 982—984.

Faivre-Amiot, A., Darpoux, H., et **Roux, L.,** Sur un nouvel antibiotique, la chlamydosporine, isolé d'un Fusarium. Compt. rend. Acad. Sci., Paris, 235. 1952, 912—913.

Fox, S. W., What are antibiotics? Iowa Farm Sci. 7. 1952, 51—52.

Gauze, G. F., (Antibiotics in the control of plant diseases.) Priroda, Moskwa, 41. 1952, nr. 6, p. 105—107.

Glathe, Antibiotische Stoffe in der Landwirtschaft. Landbau-Forsch., Völkenrode, 1. 1952, 53—55, 5 Abb.

Gonçalves de Lima, O., Larios, C., Zapata, M., y **Dziendzielewsky, U.,** Primeras observaciones sobre un antibiótico aislado de la planta mexicana denominada »raiz de indio«, Aristolochia sp. Ciencia (México) 12. 1952, 31—33.

Gottlieb, D., and **Siminoff, P.,** The production and role of antibiotics in the soil. II. Chloromycetin. Phytopathology 42. 1952, 91—97, 2 fig.

Gottlieb, D., Siminoff, P., and **Martin, M. M.,** The production and role of antibiotics in soil. IV. Actidione and clavacin. Phytopathology 42. 1952, 493—496.

Gregory, K. F., Allen, O. N., Riker, A. J., and **Peterson, W. H.,** Antibiotics and antagonistic microorganisms as control agents against damping-off of alfalfa. Phytopathology 42. 1952, 613—622, 8 fig.

Gregory, K. F., Allen, O. N., Riker, A. J., and **Peterson, W. H.,** Antibiotics as agents for the control of certain damping-off fungi. Amer. J. Bot. 39. 1952, 405—415, 10 fig.

Grossbard, E., Los antibióticos y el antagonismo microbiano en la patalogia de las plantas. Univ. Antioquia (Colombia) 105. 1952, 91-98.

Grossbard, E., Antibiotic production by fungi on organic manures and in soil. J. gen. Microbiol. 6. 1952, 295—310, 4 tab.

Grossbard, E., Antibiotics and plant protection. [plant disease control] Westralian Farmers' co-op. Gaz. (Australia) 22. 1952, 119—121, 123, 125—126.

Henry, A. W., Miller, R. L., and **Peterson, E. A.,** Control of covered smut of wheat by rapid seed treatment with an antibiotic. Science, Lancaster, 115. 1952, 90—91.

Hesseltine, C. W., Hauck, M., Ten Hagen, M., and **Bohonos, N.,** Isolation and growth of yeasts in the presence of aureomycin. J. Bact., Baltimore, 64. 1952, 55-61, 1 fig.

Hosoya, S., Komatsu, N., and **Soeda, M.,** (An antifungal agent isolated from mycelium of Streptomyces griseocarneus.) J. Antibiotics (Japan) 5. 1952, 525—527.

Hosoya, S., Komatsu, N., and **Soeda, M.,** (Rotaventin, an antifungal agent isolated from mycelium of Streptomyces reticuli.) J. Antibiotics (Japan) 5. 1952, 451—453.

Hosoya, S., Komatsu, N., Soeda, M., Yugaguchi, T., and **Sonoda, Y.,** (Trichomycin, a new antibiotic with trichomonacidal and antifungal activities. J. Antibiotics (Japan) 5. 1952, 564—566.

Hsiung, G. D., and **Lucas, E. H.,** An antifungal principle in the cell of Achromobacter iophagum. Michigan agric. Exp. Stat. Quart. Bull. 35. 1952, 95—101.

Hughes, J. E., Survey of antibiotics in the wild green plants of southern California. Antibiotics and Chemother. 2. 1952, 487—491.

Jefferys, E. G., The stability of antibiotics in soils. J. gen. Microbiol. 7. 1952, 295—312, 19 fig.

Johansson, N. O., Antibiotika och växtskydd. Växskyddsnotiser, Stockholm, 16. 1952, 17—20, 1 fig.

Johnson, L. F. and Wheeler, H. E., The effect of Actinomycetes antibiotic to Pythium arrhenomanes in plate cultures on root rot of sugar-cane and corn. Proc. Assoc. south. agric. Workers 49. 1952, 142 (Abstr.).

Joshi, C. G., and **Magar, N. G.,** Antibiotic activity of some Indian medicinal plants. J. sci., ind. Res., Delhi, 11 B. 1952, 261—263.

Kavanagh, F., Hervey, A., and **Robbins, W. J.,** Antibiotic substances from basidiomycetes IX. Drosophila subatrata (Batsch ex Fr.) Quél. Proc. nat. Acad. Sci., Washington, 38. 1952, 555—560, 1 fig.

Kobayashi, S., Sato, J., Ishida, N., and **Owaki, Y.,** Studies on the antibiotic substances from Actinomyces. 4. Isolation of streptomycin from Str. olivaceus. Tohoku J. exp. Med. 55. 1952, 273—282.

Kochi, M., Ruigh, W. L., Acker, R. F., Lechevalier, H. A., and **Waksman, S. A.,** Antibiotic-producing properties of Streptomyces 3560, a member of the S. flavus group. Proc. nat. Acad. Sci., Washington, 38. 1952, 383—391.

Krasiljnikow, N. A., (The use of antibiotics in plant cultivation.) Priroda, Moskwa, 7. 1952, 17—27.

Kurup, P. A., and **Rao, P. L.N.,** Antibiotic principle from Moringa pterygosperma. I. Purification. [Pterygospermin] J. indian Inst. Sci. 34. 1952, 219—227.

Leben, C., and **Fulton, R. W.,** Effect of certain antibiotics on lesion production by two plant viruses. Phytopathology 42. 1952, 331—334, 1 fig.

Leben, C., and **Keitt, G. W.,** Studies on helixin in relation to plant disease control. [antifungal antibiotic] Phytopathology 42. 1952, 168—170.

Leben, C., and **Keitt, G. W.,** Studies on the fungicidal activity of helixin. Phytopathology 42. 1952, 13 (Abstr.).

Leben, C., Stessel, G. J., and **Keitt, G. W.,** Helixin, an antibiotic active against certain fungi and bacteria. Mycologia, Lancaster, 44. 1952, 159—169, 1 fig.

Loefer, J. B., and **Weichlein, R. G.,** Growth response of certain fungi to polymycin and neomycin. Texas J. Sci. 4. 1952, 541—544.

McLennan, E. I., and **Ducker, S. C.,** The description and distribution of the species of Penicillium Link in some Victoria soils. Proc. R. Soc. Victoria 64 (n. ser.). 1952, nr. 1, p. 10—71, 40 fig., 1 tab.

Maeda, K., Okami, Y., Taya, O., and **Umezawa, H.,** On new antifungal substances, moldin and phaeofacin, produced by Streptomyces sp. J. Antibiotics (Japan) 5. 1952, 465.

Marcus, S., Antibacterial activity of the triterpenoid acid (polyporenic acid C) and of ungulinic acid, metabolic products of Polyporus benzoinus (Wahl) Fr. Biochem. J., Cambridge, 50. 1952, 516—517.

Martin, N., and **Gottlieb, D.,** The production and role of antibiotics in the soil. III. Terramycin and aureomycin. Phytopathology 42. 1952, 294—296.

Mirzabekyan, R. O., (The action of microbe antagonists and their antibiotic substances on a series of stimulators of bacteriosis in agricultural plants.) Proc. Lenin Acad. agric. Sci. USSR 17. 1952, nr. 5, p. 34—38.

Mitchell, J. W., Zaumeyer, W. J., and **Anderson, W. P.,** Translocation of streptomycin in bean plants and its effect on bacterial blights. Science, Lancaster, 115. 1952, 114—115.

Miyamori, A., (Studies on the antibiotic substances from Actinomyces. XIV.) J. Antibiotics (Japan) 5. 1952, 163—165.

Moreau, F., Sur un Penicillium du groupe brevi-compactum aux propriétés antibiotiques. Bull. Soc. bot. France 99. 1952, 163—166.

Muir and **Upson, K.,** Antibiotics from soil. Mega 12. 1952, nr. 2, p. 33—35.

Narasimha Rao, P. L., and **Verma, S. C. L.,** Antibiotic principles of Garcinia morella: Part II — Chemistry of merellin. J. sci., ind. Res., Delhi, 11 B. 1952, 206—209.

Niethammer, A., und **Schmid, I.,** Untersuchungen über Kernverhältnisse, sowie Anastomosenbildung und deren Beziehungen zur Abscheidung antibiotischer Substanzen bei Penicillien, Fusarien und Cladosporium herbarum. Ztschr. Pfl.krankh. 59. 1952, 321—323, 2 Abb.

Öppinger, H., und **Schaefer, H.,** Über die Technologie und Verfahrenstechnik der Herstellung von Antibiotika. Chem.-Ing.-Techn., Weinheim 24. 1952, 277—283, 13 Abb.

Pavan, M., »Iridomyrmecin« as insecticide. Trans. IXth int. Congr. Ent., Amsterdam, 1 (1951). 1952, 321—327.

Perlman, D., and **Wagman, G. H.,** Studies on the utilization of lipids by Streptomyces griseus. J. Bact., Baltimore, 63. 1952, 253—262, 4 fig.

Plattner, P. A., Günthard, H. H., und **Boller, A.,** Welkstoffe und Antibiotika. XIV. Mitt. Röntgenographische Bestimmung des Molekulargewichtes von Lycomarasmin. Helvet. chim. Acta 35. 1952, 999 -1002.

Poppe, K., und **Strutz, I.,** Antibakterielle Wirkstoffe von Aktinomyzeten. Zentralbl. Bakt., I. Abt., 158. 1952, 106—109.

Proulx, J. R., Ce qu'il faut savoir au sujet des antibiotiques. Terre chez nous (Canada) 23. 1952, 16, 23.

Raineri, C., (Along the road of sientific research: plant diseases, antibiotics, and humus.) Agenzia Romana Note, Inform. Agric. 5. 1952, nr. 38, p. 6—7.

Rao, P. L. N., and **Verma, S. C. L.,** Antibiotic principle of Allium sativum; the structure of allicin preparation and properties of diphenyl disulphide oxide. J. indian Inst. Sci. 34. 1952, 315—321.

Raper, K. B., A decade of antibiotics in America. Mycologia, Lancaster, 44. 1952, 1—59, 5 fig.

Riberéau-Gayon, J., et **Peynaud, E.,** Action inhibitrice sur les levures de la vitamine K^5 et de quelques antibiotiques. Compt. rend. Acad. Agric. France 39. 1952, 479—481.

Rof Codina, J., Los antibióticos. Cultivador mod., Barcelona, 35. 1952, 297—298.

Routien, J. B., and **Finlay, A. C.,** Problems in the search for microorganisms producing antibiotics. Bact. Rev. 16. 1952, 51—67.

Rushdi, M. K., Antagonism of several isolates of Rhizoctonia solani by a species of streptomyces. Phytopathology 42. 1952, 473.

Schopfer, W. H., Bein et **Besson, C.,** Étude du mode d'action de la streptomycine et de quelques antibiotiques sur les plantes supérieures. Congr. Biochim. Résumés Commun. 2. 1952, 114—115.

Selli, M., Asymmetricum gurubuna dahil Penicillium sp.lerin antibiotic kabiliyetleri üzerinde araştirma. (Untersuchung über die antibiotische Wirksamkeit von Penicillium-Arten aus der Asymmetricum-Gruppe.) Tomurcuk, Istanbul, 1952, nr. 12, p. 12—13.

Sirsi, M., Kale, L., Natarajan, S., and **Nayak, U. B.,** Studies on the antimicrobial activity and pharmacological properties of some essential oils, extracted from locally cultivated plants. J. indian Inst. Sci. 34. 1952, 261—267.

Smeby, R. R., Leben, C., Keitt, G. W., and **Strong, F. M.,** Production and purification of the antibiotic helixin. Phytopathology 42. 1952, 506—510, 1 fig.

Stessel, G. J., Leben, C., and **Keitt, G. W.,** Studies on an antifungal antibiotic produced by Bacillus subtilis. Phytopathology 42. 1952, 20 (Abstr.).

Stiven, G., Production of antibiotic substances by the roots of the grass (Trachypogon plumosus (H. B. K.) Nees) and of Pentanisia variabilis (E. Mey.) Harv. (Rubiaceae). Nature, London, 170. 1952, 712—713.

Szymona, M., (The effect of the phytoncides of Allium sativum on the growth and respiration of some pathogenic fungi.) Acta Microbiol. polon. 1. 1952, 5—23.

Takahashi, H., and **Tsubura., E,** (Studies on chromin, an antifungal substance.) J. Antibiotics (Japan) 5. 1952, 577—578.

Thanos, A., Effect of cyclohexymide (actidione) and some environmental factors on the germination of spores of Monilinia fructicola and Botrytis cinerea. Phytopathology 42. 1952, 21. (Abstr.).

Tschesche, R., Der Wirkungsmechanismus von Chemotherapeutika und Antibiotika. Zentralbl. Bakt., I. Abt., 158. 1952, 217—218.

Umezawa, H., Tazaki, T., and **Fukuyama, S.,** An antiviral substance, abikoviromycin, produced by Streptomyces species. J. Antibiotics (Japan) 5. 1952, 469—476.

Umezawa, H., Takahashi, S., Takeuchi, T., Maeda, K., and **Okami, Y.,** On a new antibiotic, exfoliatin, produced by a strain of Streptomyces. J. Antibiotics (Japan) 5. 1952, 466.

Verona, O., e **Gambogi, P.,** Una ricerca sull'azione della citrinina prodotta da Penicillium citrinum Thom su funghi fitopatogeni. Phytopath. Ztschr. 19. 1952, 423—430, 7 fig.

Waksman, S. A., Romano, A. H., Lechevallier, H., and **Raubitschek, F.,** Antifungal antibiotics. Bull. Org. mond. Santé, Genève, 6. 1952, 131—147.

Walder, W. O., Antibiotics and food. Food, London, 21. 1952, 142—145.

Wallhäußer, K. H., Vitalfärbung von Bakterien. Wirkungsmechanismus der Antibiotica-Zellteilungsvorgänge (Vitalfärbung). Zentralbl. Bakt., I. Abt., 158. 1952. 358—362. 5 Abb.

Winter, A. G., und **Willeke, L.,** Untersuchungen über Antibiotica aus höheren Pflanzen. IV. Mitteilung. Hemmstoffe im herbstlichen Laub. Naturwissenschaften 39. 1952, 45—46.

Winter, G., Die Bedeutung der Antibiotica in der Natur. Umschau 52. 1952, 619—621, 2 Abb.

Yoshioka, H., (A new rapid isolation procedure of soil Streptomyces.) J. Antibiotics (Japan) 5. 1952, 559—563.

c. Chemische Bekämpfung
Control by chemicals
Lutte par des produits chimiques

Allgemeiner Teil
General part — Partie générale

Becker, A., Das Pflanzenschutzmittelverzeichnis 1952. Landw. Ztschr. Nord-Rheinprov. 119. 1952, 652.

Beljaew, I. M., (Komplexe chemische Methode der Bekämpfung von Schädlingen, Krankheiten und Unkräutern von Getreidekulturen.) Seletsiia i Semenovodstvo (Selection and Seed Growing), Moskwa, 19. 1952, nr. 11, p. 57—66.

Besemer, A. T. H., (Factors affecting the action of crop protecting products not yet duly taken notice of in practice.) Meded. Dir. Tuinbouw (Nederland) 15. 1952, 777—782.

Bess, H. A., Sherman, S., and **Mitchell, W. C.,** Plant, poultry and livestock pests and their control. Hawaii. Univ. agric. Ext. Bull. 57. 1952, 46 p.

Beyer, F., Bekämpfung von Schädlingen an Wurzelfrüchten. Landw. Ztschr. Nord-Rheinprov. 119. 1952, 1365.

Billings, S. C., The labeling of insecticides under the Federal Insecticide, Fungicide and Rodenticide Act. Proc. chem. Specialt. Manufact. Assoc. 39. 1952, 119—120.

Blaquière, C., Une méthode graphique de mesure de l'efficacité des produits employés pour le traitement des maladies des feuilles. Phytoma, Paris, 5. 1952, nr. 37, p. 13—17, 3 fig.

Boudissin, F. v., Die Wirkung von Pflanzenschutzmitteln auf Collembolen und Milben in verschiedenen Böden. Zool. Jahrb. 81. 1952, 47—90.

Breny, R., La défense des cultures. Bull. hortic. (Belgique) 7. 1952, 354—357.

Cairaschi, E. A., Chronique de la protection des végétaux durant le printemps 1952. Bas-Rhin agric. (France) 7. 1952, 161—162.

Chouard, P. La phytopharmacie et son 3e Congrès International. Agric. prat., Paris, 116. 1952, 502—503.

C[iferri], R., Proposte per l'unificazione dei nomi di principi attivi degli antiparassitari in lingua italiana. Not. Mal. Piante nr. 20. 1952, 44—50.

Clerens, A., (Possibility of applying some recent new materials in plant pharmacy.) [seed disinfectants, fungicides, and insecticides] Agricultura, Louvain, 50. 1952, 121—132.

Conners, I. L., List of fungicides and fungicide-insecticides registered for 1952 as of July 15, 1952. Canada Dept. Agric. 1952.

Cossette, M., Produits chimiques: la rançon du progrès. Bull. Agric. 48. 1952, nr. 2, p. 11, 68.

Crowdy, S. H., The chemotherapy of plant diseases. Empire J. exp. Agric. 20. 1952, 187—194.

Cruickshank, J. A., Agricultural chemicals-use is increasing in Canada. [herbicides, insecticides, and fungicides] Agric. Inst. Rev., Ottawa, 7. 1952, nr. 5, p. 26—28.

Del Rivero, J. M., Los fitofármacos y los insectos y hongos útiles. Bol. Ofic. Asoc. Nac. Ing. Agrón. 22. 1952, 3—7.

Drees, H., Ist Chemotherapie im Pflanzenschutz notwendig? Gesunde Pflanzen 4. 1952, 189—190.

Eickstedt, H. v., Pflanzenschutz in USA. Landtechnik 7. 1952, Nr. 14, S. 417—421.

Erkut, A., 1952 yilinda Enstitümüzde yapilan ilaç denemeleri. Bitki Koruma Bült. (Bull. Plant Prot.), Ankara, 1952, nr. 4, p. 38—43.

Erlenbach, M., Wandlungen des Weltmarktes von Schädlingsbekämpfungs- und Pflanzenschutzmitteln. Chem. Ind., [Düsseldorf], 4. 1952, 229—231.

Frickhinger, H. W., Innere Therapie im Pflanzenschutz. Dtsch. Apotheker-Ztg. 92. 1952, 704.

Fürst, H., Chemie und Pflanzenschutz. Eine Einführung. Verlag Technik, Berlin 1952. 100 S., 20 Abb. (Schriftenr. Verl. Technik Bd. 36.)

Garcia-Gutierrez, A. G., Agentes tóxicos y enzimas. Rev. ind., fabril (España) 7. 1952, 384—389.

Grosjean, J., La terapia interna en las enfermedades de plantas. Bol. Prod., Fomento agríc. (Argent.) 4. 1952, nr. 32, p. 16—19.

Henriet, J., Compatibilités et incompatibilités en phytopharmacie. Rev. Agric., Bruxelles, 5. 1952, 1291—1310, 1 tab. col.

Hofsten, C. G., v., (Don't blame everything on chemicals.) Lantmannen, [Uppsala], 36. 1952, 767—769.

Horber, E., Die Bekämpfung der Schädlinge im Acker- und Futterbau. Schweiz. landw. Monatsh. 2. 1952, 48—74.

Hubert, K., Die Bekämpfung der vor Winter auftretenden Pflanzenschädlinge. Dtsch. Landw. 3. 1952, 463—465.

Hutson, R., Arbuthnot, K. D., and **Haseman, L.,** Can biological and chemical controls work together? Proc. amer. Assoc. econ. Entomologists, North Centr. States Br., 7. 1952, 17—24.

Jacks, H., Evaluation of plant therapeutants. Orchardist New Zealand 25. 1952, 5, 7, 9, 11, 13.

Jacks, H., List of plant therapeutants under test in New Zealand. First supplement — September 1, 1952. Orchardist New Zealand 24. 1952, nr. 10, p. 9—13.

Jancke, O., Schädlingsbekämpfung mit innertherapeutischen Mitteln. Zentralbl. dtsch. Erwerbsgartenbau 4. 1952, Nr. 21, S. 1, 3, 2 Abb.

Kaiser, W., Was bringt das neue Pflanzenschutzmittel-Verzeichnis? Gesunde Pflanzen 4. 1952, 167—168.

Kay, K., and Ball, W. L., A practical approach to the toxicological evaluation of insecticides and fungicides. Proc. canad. phytopath. Soc. nr. 20. 1952, 18 (Abstr.).

Kirby, A. H. M., Plant protective chemistry. East Malling Res. Stat. Rept. 1951. 1952, 46—48.

Kjellander, E., Växtsjukdomar och deras bekämpande (Plant diseases and their control). Bonniers, Stockholm, 1952, 182 p.

Klauß, D., Wissenswertes über einige unserer wichtigsten Schädlingsbekämpfungsmittel. Saarl. Bauernbl. 6. 1952, 169.

Kleemann, H. A., Katalogbuch über Pflanzenschutz- und Schädlingsbekämpfungs-, Bautenschutz- und Holzschutzmittel sowie Pflanzenschutzgeräte. Norddtsch. Kalkkontor, Hamburg 1952? 153 S.

Klett, Immer mehr Pflanzenschutzmittel! Württ. Wochenbl. Landw. 119. 1952, 607.

Kumer, R., Wirksamer Pflanzenschutz durch Schädlingsbekämpfung. Obst- u. Gartenbau, Stuttgart, 7. 1952, 152.

Lilly, J. H., All bugs aren't bad. Successful Farming (Iowa) 50. 1952, nr. 3, p. 42—43, 142—145.

Löwenberg, P., (Synthetic chemical products). Rev. Quim. ind., Rio de Janeiro, 21. 1952, nr. 243, p. 14—20.

Maag, R., La méthodologie de la protection des plantes en horticulture. 13th int. hortic. Congr., London, Mimeogr. Pap. 1952, 8.

McManus, P. J., Pest control — new methods and materials are solving the problems of pest-free crop production. [insects and disease control] GLF (Coop. Grange League Fed. Exch., Inc.) Week 16. 1952, nr. 45, p. 5.

Marchionatto, J. B., La lucha quimica contra las plagas de la agricultura. An. Soc. cient. argent., Buenos Aires, 153. 1952, 161—176.

Marchionatto, J. B., Semana de defensa sanitaria de la produccion vegetal. [insect pest and disease] Almanaque Minist. Agric., Buenos Aires, 26/27. 1951/1952, 321—322.

Martin, H., and **Miles, J. R. W.,** Guide to the chemicals used in crop protection. Canada Dept. Agric., Sci. Serv., Ontario 1952, 236 p.

Martin, L., Biométrie et phytopharmacie. Parasitica, Gembloux, 8. 1952, 4—14, 3 fig.

Matsuyama, H., (The method of accerelation on rationalisation of agricultural chemical industry.) J. Plant Prot., Tokyo, 42. 1952, 441—442.

Mehta, P. R., Control of plant diseases. [India] Agric. Anim. Husb. India 3. 1952, 8—14.

Merfield, A. G., Cloche gardening in New Zealand. Control of pests and diseases. New Zealand Gard. 8. 1952, 349—352.

Mieller, H., Pflanzenschutz — Schädlingsbekämpfung im Monat Februar, März, April, Mai, Juni, Juli, August, September, Oktober, November. Land u. Frau 32. 1952, 60, 103, 126, 173, 217, 262, 306, 349, 393, 437, 482.

Minev, K., (Modern methods for protecting plants from diseases.) Socijalističko Zemjodelstvo (Yugoslavia) 4. 1952, nr. 3/4, p. 47—53.

Moore, E., We'll lick the crop robbers. [disease, insect, and weed control] Farm J., Philadelphia, 75. 1952, nr. 4, p. 42—43, 104, 106.

Nikiforow, A. M., (Control of weeds, pests and diseases of agricultural plants by chemical methods.) Sowietsk. Agron., Moskwa, 10. 1952, nr. 5, p. 73—76.

Øyen, K., (Experiments with new plant protection preparations.) Gartneryrket (Norge) 42. 1952, 445.

Olsen, H. K., (Experiments and investigations of chemical preparations for the control of plant diseases and weeds.) Beretn. Faellesforsøg Lanbo-, Husmandsforgerne 1952. 1953, 3—24.

Pindur, W., Das Wesen der Pflanzenschutzmittel. Obst- u. Gartenbau, Stuttgart, 7. 1952, 36, 58—59, 104.

Plate, H.-P., Was müssen wir von den neuen Bekämpfungsmitteln wissen? Gartenwelt 52. 1952, 70—73.

Potter, C., Insecticides and Fungicides Department. Rothamsted Exp. Stat., Harpenden, Rept. 1951. 1952, 114—126.

Rauscher, H., Gasverfahren zur Schädlingsbekämpfung. Schädlingsbekämpfung 44. 1952, 1—8.

Reinmuth, E., Pflanzenkrankheiten und Pflanzenschädlinge; Wege zu ihrer Bekämpfung. Aufbau-Verlag, Berlin 1952. 99 S.

Ricci, A., (Better control of parasites of cultivated plants.) Romagna agric., zootecn., Ravenna, 37. 1952, nr. 10, p. 1—2.

Roberts, R. M., Fighting pests in the West. [insect, disease, and weed control] West. Grower, Shipper 23. 1952, nr. 12. p. 196, 198.

Rocasolano, C., Fuego y pajaros en el saneamiento de los predios. [prevention of diseases and pest] Cultivador mod., Barcelona, 35. 1952, 216.

Russo, G., (Control of fruit and vegetable diseases and those of stored products.) Fruttic. camp. (Italia) 2. 1952, nr. 11, p. 1, 3.

Russo, G., (Protection of field and horticultural crops.) Fruttic., camp. (Italia) 2. 1952, nr. 12, p. 3.

Salter, R. M., A summary for ag leaders on the new uses for ag chemicals. [weed control, fungus control and soil improvement] Better Farming Methods 24. 1952, 10, 12—13.

Sampford, M. R., Studies in the principles of phytotoxicity. II. Experimental designs and techniques of statistical analysis for the assessment of toxicity. J. exp. Bot. 3. 1952, 28—46.

Schindler, H., Neue, wertvolle Bekämpfungsmittel im Pflanzenschutz. Illustr. Flora, Wien, 75. 1952, 6—8.

Schipstra, K., Bestrijding van platenziekten, schadelijke dieren en onkruiden in de landbouw. (Control of plant diseases, pests and weeds in agriculture.) Versl., Meded. plantenziektenkdg. Dienst, Wageningen, 116 (2., rev. Ed.). 1952, 121 p.

Schnicker, J. L., Kemikaliekontrollen i finansåret 1950—51, 1951—1952. Tidsskr. Planteavl, København, 55. 1952, 163—172, 700—712.

Sellke, K., Die Ergebnisse der Prüfung von Pflanzenschutzmitteln im Jahre 1951. Dtsch. Landw. 3. 1952, 48—52.

Setaire, A., Les peintures (à l'eau) insecticides et microbicides. Élevage et Cult. (Algérie) 4. 1952, nr. 42, p. 18—19.

Shepard, H. H., The Department of Agriculture and its relation to industry raw material requirements for pesticides. Proc. Mid-Year Meetg. Chem. Spec. Mfr. Assoc. Off. 38. 1952. 114.

Shepard, H. H., Domestic pesticide requirements for the 1953 season. [insecticides, fungicides, herbicides] US Prod., Mktg. Admin., Washington 1952. 9 p.

Smirnova, A. A., (New wetting agents for spraying with contact insecticides and acaricides.) Dokl. Vsesoiuzn. Akad. Sel'skohoz. Nauk im. V. I. Lenia (Proc. Lenin Acad. agric. Sci.) 17.1952, nr. 2, p. 19—22.

Stanković, A., i Ostojić, N., Novija sredstva za zaštitu bilja. (Les nouveaux insecticides et fongicides synthétiques) Saschtita Bilja (Plant Prot.), Beograd, nr. 12. 1952, 78—86, 1 fig.

Stellwaag, F., Erfolge und Mißerfolge in der Schädlingsbekämpfung. Dtsch. Weinbau, Mainz, 7. 1952, 203—204.

Teoman, N., Zirai mücadele ilâçlari. Bitki Koruma Bült. (Bull. Plant Prot.), Ankara, 1952, nr. 1, p. 57—69.

Tiagnienko, E., Control y fiscalización de insecticidas, fungicidas y herbicidas de uso agricola. [Venezuela] Agro, [El Valle] (Venezuela), 6. 1952, nr. 20, p. 59—63.

Tilemans, E., Désherbants, insecticides et fongicides. Rev. Agric., Bruxelles, 5. 1952, nr. 9, 7 p.

Tilemans, E., Les nouveautés en phytopharmacie. I. Substances, modes d'application. II. Les nouveaux fongicides et herbicides. Sillon belge 22. 1952, nr. 505, p. 1, 3; nr. 506, p. 9.

Tilemans, M., Lutte contre les ennemis de la culture. [insecticides, fungicides, herbicides] Terre d'Oc (France) 34. 1952, 502—508.

Tilemans, M., Lutte contre les ennemis des cultures. Rev. agric. Afr. Nord 50. 1952, 697—700, 723—725.

Trappmann, W., Bereinigung des Pflanzenschutzmittelmarktes. Neue Mitt. Landw. 67. 1952, 40—41, 1 Abb., 50, 58.

Trappmann, W., Pflanzenschutzmittel in den USA. I—IV. Gesunde Pflanzen 4. 1952 6—8, 41—42, 68—70, 143—146.

Trappmann, W., Vereinheitlichung und Kennzeichnung der chemischen Pflanzenschutzmittel. Nachr.bl. dtsch. Pfl.schutzd., Braunschweig, 4. 1952, 71—74.

Tschesche, R., Der Wirkungsmechanismus von Chemotherapeutika und Antibiotika. Zentralbl. Bakt., I. Abt., 158. 1952, 217—218.

Tuin, W., (Experiences in the control of some important plant diseases.) Versl. landbouwkdg. Onderz. Noordelijk-Groningen 1952, 71—74.

Unterstenhöfer, G., Über Wesen und gegenwärtigen Stand der Inneren Therapie der Pflanzen. Gesunde Pflanzen 4. 1952, 257—260.

Vadé, S., Connaissez et utilisez les avertissements agricoles. Vie Campagne, Paris, 41. 1952, 386—388.

Van Rossem, G., Bescherming van opgeslagen tuinbouwzaden. Tuinbowgids, Den Haag, 1952, 268—269.

Verhoeven, W. B. L., Overzicht van de belangrijkste ziekten en plagen van landbouwgewassen en hun bestrijding. (Survey of the most important diseases and pests of agricultural plants and their control.) Versl., Meded. plantenziektenkdg. Dienst, Wageningen, 92, 1952, 175 p.

Vezin, Ch., et **Bouron, H.,** Le contrôle des antiparasitaires agricole. Ses débuts, son évolution, améliorations souhaitables, besoin d'un codex phytopharmaceutique. Phytoma, Paris, 5. 1952, nr. 40, p. 33—35.

Weiss, F. A., Pest control: not a jig-saw puzzle, but the complete picture as of today. Home Garden 19. 1952, nr. 4, p. 21—24.

Wellenstein, G., Chemische und biologische Schädlingsbekämpfung. Forstarchiv 23. 1952, 69—70.

Wellenstein, G., Forstschädlingsbekämpfung mit chemischen Stoffen. Ztschr. Ver. dtsch. Forstmänner Baden, Württ. 1952.

Willaume, F., Une initiative importante pour le développement de l'emploi des spécialités phytopharmaceutiques. Création d'une marque syndicale de garantie. Phytoma, Paris, 5. 1952, nr. 40, p. 37—38, 1 fig.

Willaume, S., L'industrie française des spécialités phytosanitaires. Rev. Minist. Agric. France 69. 1952, 99—100.

Wille, J. E., Probleme der landwirtschaftlichen Schädlingsbekämpfung in Peru. Naturwissenschaften 39. 1952, 105—106.

Williams, F. H., Pest destroyers — brands registered for 1952. [list of all fungicides, insecticides, vermin destroyers and weed killers] J. Dept. Agric. Victoria 50. 1952, 270—287.

Yuasa, H., (How to manage common names of agricultural chemicals.) J. Plant Prot., Tokyo, 41. 1952, 396—399.

Zeumer, H., Kombinationsmöglichkeiten von Pflanzenschutzmitteln. Nachr.bl. dtsch. Pfl.schutzd., Braunschweig, 4. 1952, 90—94, 2 Abb.

Zwölfer, W., Zum Giftnebeleinsatz im Forstschutz. — Ein Wort der Besinnung. Allg. Forstztschr. 7. 1952, 173—174.

Alfabetische lijst van bestrijdingsmiddelen. Tuinbouwgids, Den Haag, 1952, 225—233.

Amtliches Pflanzenschutzmittelverzeichnis 1952 der Bundesanstalt für Pflanzenschutz, Wien. Pflanzenarzt, Wien 5. 1952, 1. Sdr.-Nr., 155.

The **battle with pest and disease.** Fruit Grower 1952, 528—530.

Bestrijdingsmiddelen, bijeengebracht door de Plantenziektenkundige Dienst, Wageningen. Tuinbouwgids, Den Haag, 1952, 238—250.

Bestrijding van plantenziekten, schadelijke dieren en onkruiden in de landbouw (receptenboek). Veenman, Wageningen 1952. 2. ed., 121 p.

Chemisch overzicht van de belangrijkste bestrijdingsmiddelen. Tuinbouwgids, Den Haag, 1952, 222.

Fungicidas e insecticidas. Rev. nac. Agric., Bogotá, 46. 1952, nr. 562, p. 5—8, 10—11.

Het gebruik van bestrijdingsmiddelen. Tuinbouwgids, Den Haag, 1952, 235—237, 5 fig.

Insecticides and rodenticides recommendations for use, 1952. Publ. Health Rept. 67. 1952, 455—458.

Insecticides, fungicides, weedkillers. Agric. Chem., Baltimore, 7. 1952, nr. 12, p. 44.

Katalogbuch über Pflanzenschutz- und Schädlingsbekämpfungs-, Bautenschutz- und Holzschutzmittel, sowie Pflanzenschutzgeräte. H.-A. Kleemann, Hamburg 1952. 193 S.

Liste des produits phytopharmaceutiques admis définitivement à la vente par la Station de Phytopharmacie de l'état 1952. Minist. Agric., Admin. Agric. Hortic., Bruxelles 1952. 80 p., 1 tab. col.

Mischtabelle der Spritzmittel für den Pflanzenschutz. Merkbl. Biol. Bundesanst. Braunschweig Nr. 7. 1952, 1. S.

Officially approved crop protection products. Agriculture, J. Minist. Agric., London, 59. 1952, 346—347.

Pflanzenschutzmittel. Farbenfabr. Bayer AG., Leverkusen, Geschäftsber. 1952, 17—18.

Pflanzenschutzmittelverzeichnis. Biol. Zentralanst. Berlin Mai 1952, 12 S.

Pflanzenschutzmittel-Verzeichnis (Auszug). Verzeichnis amtlich geprüfter und anerkannter Forstschutzmittel. (Forstschutzmittel-Verzeichnis.) Merkbl. Biol. Bundesanst. Braunschweig Nr. 10. 1952, 4 S.

Pflanzenschutzmittel-Verzeichnis. Verzeichnis geprüfter und anerkannter Pflanzenschutz- und Schädlingsbekämpfungsmittel und -geräte. Biol. Bundesanst. Braunschweig Merkbl. Nr. 1. 1952, 5. Aufl., 41 S.

Proposte per l'unificazione dei nomi di principi attivi degli antiparassitari in Lingua italiana. (Propositions for the standardization of the names of active substances of fungicides and insecticides in Italian language.) Not. Mal. Piante nr. 20. 1952, 44—50.

Recommended common names for pest control products (Part 1). Brit. Standard 1831, Pt. 1. 1952, 14 p. (Brit. Stand. Inst., London).

A report on the insect and plant disease control programs of the United States Department of Agriculture. US. Dept. Agric., Study Group Insect Plant Dis. Control Progr., Washington 1952. 90 p.

Senate group tells how chemicals affect labor. Agric. Chem., Baltimore, 7. 1952, nr. 3, p. 111—113.

Specialpraeparater til bekaempelse af plantesygdomme og skadedyr anerkendte af Statens Forsøgsvirksomhed. Tidsskr. Planteavl, København, 55. 1952, 511—529.

Die **Wirkung von Haft-Pasten.** Gartenwelt 52. 1952, 74, 2 Abb.

Fungizide im allgemeinen
Fungicides in general
Fongicides en général

Bhagwagar, P. R., and **Patel, M. K.,** Review of work on fungicides in India up to 1940. Poona agric. Coll. Mag. 43. 1952, 46—60.

Blank, F., A quantitative method for the in vitro assay of fungistatic agents. Canad. J. med. Sci. 30. 1952, 113—117, 1 tab.

Brian, P. W., Systemic fungicides. Plant Prot. Overseas Rev., London, 3. 1952, nr. 3, p. 5—10.

Cinq-Mars, L., Résultats d'expériences sur les fongicides, Rougemont, 1950. Quebec Soc. Pomol., Fruit Cult. Rapp. 1950. 1951, 41—52.

Conova, R. A., Modern discoveries in fungicides. Parks and Recreation, Rockford (Illinois), 35. 1952, 15—16.

Cronshey, J. F. H., A survey of plant protection. Chem. Age, London, 66. 1952, 133—139.

Crowdy, S. H., Techniques in the bioassay of systemic fungicides. Ann. appl. Biol. 39. 1952, 432—434.

Crowdy, S. H., and **Davies, M.-E.,** Studies on systemic fungicides. II. Behavior of groups of reported chemotherapeutants. Phytopathology 42. 1952, 127—131, 1 fig.

Davis, D., Chemotherapeutic activity may be independent of fungitoxicity. Phytopathology 42. 1952, 6 (Abstr.).

Fürst, H., Untersuchungen über die Wirkungen von hochmolekularen organischen Stoffen als Spritzmittel gegen Rostpilzinfektion. Phytopath. Ztschr. 19. 1952, 48—55.

Gjaerum, H. B., Testing of fungicides in 1951. Gartneryrket (Norge) 42. 1952, 99—100.

Iwakiri, F., (Effect of organic fungicides to some plant diseases.) [especially on the effect of dithane] J. Plant Prot., Tokyo, 33. 1952, 110—115.

Kittleson, A. R., A new class of organic fungicides. Science, Lancaster, 115. 1952, 84—86, 1 fig.

Kluczycki, K., Studią nad wartością grzybobójczą niektórych produktów oraz praktyczna metodyka jej badania. (Study on the evaluation of the fungicidal properties of certain products and a practical method of testing them.) (Acta microbiol. polon.) 1. 1952, 223—256, 8 fig.

McNew, G. L., The fundamentals behind fungicide research. Agric. Chem., Baltimore, 7. 1952, nr. 4, p. 54—56, 143, 145—147, 149, 151—153, 155.

Miller, L. P., and **Mc Callan, S. E. A.,** Studies on fungicidal action using radioactive tracers. Trans. New York Acad. Sci. (ser. 2) 14. 1952, 329—331.

Miller, P. R., Selection and application of fungicides. Agric. Chem. 7. 1952, nr. 2, p. 65, 67, 69.

Morgan, O. D., The development of chemical restisance in plant phatogenic fungi. Absträ Thesis Univ. Illinois, Urbana 1952, 7 p.

Morgan jr., O. D., Some effects of eight fungicides on growth of Sclerotinia fructicola, Glomerella cingulata, and Penicillium expansum. Phytopathology 42. 1952, 471.

Münchberg, P., Zur Chemie der fungiciden Pflanzenschutzmittel. Naturwiss. Rundschau 5. 1952, 104—108.

Pieri, G., Nuovi anticrittogamici sperimentati nel 1951. (New fungicides tested in 1951.) Ann. Sperim. agr., Roma, 6 (n. ser.). 1952, 1027—1042.

Ramsfjell, T., (International terms for some organic fungicides.) Norsk Hagetidend, Oslo, 68. 1952, 26—27.

Raucourt, M., et Sayegh, D., Les fongicides organiques de synthèse. Phytoma, Paris, 5. 1952, nr. 38, p. 16—19; nr. 39, p. 19—22, 1 fig.; nr. 41, p. 30—33; nr. 42, p. 25—28.

Read, W. H., and Smith, R. J., Agricultural fungicides. Repts. Progr. appl. Chem. (Soc. chem. Ind.), London, 36 (1951). 1952, 677—684.

Rich, S., Using half-tree plots for increasing the efficiency of fungicide tests. Phytopathology 42. 1952, 353—354, 1 fig.

Rich, S., and Horsfall, J. G., The relation between fungitoxicity, permeation, and lipid solubility. Phytopathology 42. 1952, 457—460, 2 fig.

Rich, S., Horsfall, J. G., and Keil, H. L., The relation of laboratory to field performance of fungicides. 13th int. hortic. Congr., London, Mimeogr. Pap. 1952, 5.

Richard, G., Méthode nouvelle de lutte contre la pourriture. »Cactus« (France) 7. 1952, nr. 31, p. 2.

Richardson, L. T., Bioassay by the paper-disk plate method. Proc. canad. phytopath. Soc. nr. 20. 1952, 21 (Albstr.).

Rosella, E., Lorsqu'il y a brulures, accidents ou échecs à la suite de traitements antiparasitaires. [fungicides] Progr. argic., vitic. 138. 1952, 181—183.

Scott, C. E., Some notes on fungicides. West. Fruit Grower, San Francisco, 6. 1952, nr. 2, p. 25—26.

Sen, A. B., and Joshi, K. C., Search for organic fungicides: chemical constitution and fungicidal activity. J. Sci. Food, Agric., London, 3. 1952, 526—531.

Shafer, W. B., Fungitoxicity investigations using a novel spore germination technique. Phytopathology 42. 1952, 519 (Abstr.).

Sharvelle, E. G., Systemic fungicides in 1951: British investigations. Plant Dis. Reptr. 36. 1952, 35—43, 4 fig.

Sijpesteijn, A. K., and Van der Kerk, G. J. M., Investigations on organic fungicides. VI. Histidine as an antagonist of tetramethylthiuram disulphide (TMTD) and related compounds. Antonie van Leeuvenhoek, J. Microbiol., Serol., 18. 1952, 83—106, 3 fig., 4 tab.

Smith, G., Antifungal tests. Biochem. J., Cambridge, 50. 1952, 629.

Townsend, G. R., Year-around field trials used in screening of fungicides. Agric. Chem., Baltimore, 7. 1952, nr. 5, p. 77, 79, 135.

Van der Kerk, G. J. M., and Klopping, H. L., Investigations on organic fungicides. VII. Rec. Trav. chim. Pays-Bas 71. 1952, 1179—1197

Van Raalte, M. H., A test for the translocation of fungicides through plant tissues. Compt. rend. III^er Congr. int. Phytopharm., Paris, 1952, vol. 2, p. 76—78.

Wade, E. K., Know your fungicides. Badger common 'Tater 5. 1952, nr. 5, p. 4—5.

Waggoner, P. E., Rich S., and Horsfall, J. G., Prediction of field performance of fungicides. Phytopathology 42. 1952, 477.

Wain, R. L., Systemic fungicides. Ann. appl. Biol. 39. 1952, 429—432.

New fungicide controls three diseases. Seed World 70. 1952, nr. 3, p. 27.

1951 summary of results of fungicide tests in the United States and Canada. Plant Dis. Reptr. Suppl. 213. 1952, 109—140.

1950 summary of results of fungicide tests on crops other than fruit trees. Plant Dis. Reptr. Suppl. 210. 1952, 3—19.

Herbizide im allgemeinen
Herbicides in general
Herbicides en général

(Siehe auch — see also — voyez aussi p. 29, 31, 363.)

Åberg, E., Modern ogräsbekämpning. (Modern weed control.) Kungl. Lantbruksakad. Tidskr. (Ztschr. Kgl. schwed. Akad. Landw.), Stockholm, 91. 1952, 227—245.

Anderson, E. G., Weed control notes from Prince Edward Island. Proc. canad. nat. Weed Comm., East. Sect., 3. 1950, 73. (Abstr.).

Arnaboldi, R., Control quimico de las malezas. Bol. Inform. Minist. Ganad., Agric. Uruguay 414. 1952, 4, 6.

Arola, V. A., (My fight against weeds.) Teho (Finland) 4. 1952, 160—163.

Barabe, R., Quebec weed problem and its solution. Proc. canad. nat. Weed Comm., East. Sect., 5 (1951) 1952, 6—12.

Beach, G. O., Weed killers. Mod. Nutrit. (amer. Acad. appl. Nutrit.) 5. 1952, nr. 10, p. 9—12.

Beatty, R. H., Brush control in the future. Proc. north centr. Weed Control Conf. 9. 1952, 57—59.

Becker, A., Zur Frage der Unkrautbekämpfung. Landw. Ztschr. Nord-Rheinprov. 119. 1952, 482—483, 1 Abb.

Benford, H., Hoe hands by the gallon. Progr. Farmer (Texas Ed.) 67. 1952, nr. 3, p. 92, 100.

Berendes, P., Neue Kampfmittel neben alten Kampfmitteln gegen die Unkräuter. [Chemikalien] Landw. Wochenbl. Westf., Lippe 109 A. 1952, 515—516.

Bergsma, D., New Jersey's State-wide coordinated weed control program. New Jersey Dept. Health Publ. Health News 33. 1952, 163—165.

Besemer, A. F. H., en **Zonderwijk, P.,** Onkruidbestrijding met chemische middelen. Tuinbouwgids, Den Haag, 1952, 265—267.

Bidstrup, P. L., The safe handling of poisonous substances used as weedkillers. J. Inst. Corn, agric. Merch., London, 3. 1952, 160—163.

Bieberdorf, F. W., and **Hatfield, R.,** Weedicides can cause havoc if handled carelessly. South. Seedsman (Texas) 15. 1952, nr. 2, p. 25, 65, 69.

Blackburn, F. H. B., Hanschell, D. M., and **Clarke, M.,** Some aspects of weed control in Trinidad. Trop. Agric., Trinidad, 29. 1952, 54—69.

Blackman, G. E., El desarrollo de los métodos químicos para el control selectivo de las maias hierbas. An. Edafol., Fisiol. veg., Madrid, 11. 1952, 309—322.

Böhme, L., Erfahrungen mit den Unkrautbekämpfungsmitteln Hormit, Hormin und UT 10 Leuna. Dtsch. Landw. 3. 1952, 632—635, 6 Abb.

Boer, H. T., and **Wouda, K. P.,** (Chemical weed control 1952.) Versl. landbouwkdg. Onderz. Noordelijk-Groningen (Nederland) 1952, 74—85.

Brejcha, V., (Herbicidal effect of certain chemicals.) Socialist. Zeměd. (Čescosl.) 2. 1952, 166—172.

Briceño, R., Empleo y acción de los herbicidas. Campesino, Santiago, 84. 1952, nr. 7, p. 12—13, 15.

Buchholtz, K. P., Weed control — a key to production. Proc. north centr. Weed Control Conf. 9. 1952, 1—2.

Bylterud, A., (Spraying against weeds.) Lantmannen, [Uppsala], 36. 1952. 1033.

Callsen, H., Chemische Bekämpfung des Unkrauts. Bauernbl. Schlesw.-Holst. 6./102. 1952, 615—616.

Carey, W. C., Engineer uses of chemical herbicides. Milit. Engin., Washington, 44. 1952, 174—177.

Česalin, J. A., (Care of the crop as a measure to control weeds.) Socialist. Zeměd. (Čescosl.) 2. 1952, 187—196.

Česalin, J. A., (Preventive measures against weeds.) [Czechoslovakia] Socialist. Zeměd. (Čescosl.) 2. 1952, 161—166.

Česalin, J. A., (Role of soil preparation in controlling weeds in fields.) Socialist. Zeměd. (Čescosl.) 2. 1952, 172—182.

Chávez Viaud, M., Apuntes acerca de las quemas practicadas en agricultura. Vida rural, Caracas, 13. 1952, nr. 17/13, (i. e. 17/18), p. 23—24.

Cohen, G., (Herbicidal sprays to replace winter cultivation.) Hassadeh, Tel-Aviv, 33. 1952, 174—176.

Conner, B. M., Spray those fencerow weeds. Breeder's Gaz., Chicago, 117. 1952, nr. 5, p. 9, 21—23.

Cook, S., Can chemicals weed your garden? South Dakota Farm, Home Res. (South Dakota Stat.) 3. 1952, 68—71.

Corns, W. G., Chemical control of persistent perennial weeds in western Canada. Proc. north centr. Weed Control Conf. 9. 1952, 15—17.

Corns, W. G., Field experiments with herbicides. Alberta Univ., Dept. Plant Sci., Seas. Notes 37. 1952, 3—5.

Coulter, L. L., Weed and brush control by spraying. Purdue niv., Engin. Ext. Dept., Ext. Ser. 78. 1952, 146—150.

Crafts, A. S., Chemical weed control offers three major methods. Fruit, Veg. Rev. 14. 1952, 14—15.

Crafts, A. S., Chemical weed control; soil sterilants and translocated herbicides have their advantages and problems according to their special uses. Calif. Agric., Berkeley, 6. 1952, 4, 14.

Crafts, A. S., and **Harvey, W. A.,** (Selective herbicides.) Fazenda, New York, 47. 1952, nr. 2, p. 42.

Craig, H. A., Cultural and other control methods of persistent perennial weeds. Proc. north centr. Weed Control Conf. 9. 1952, 17—18.

Crowe, S. M., Weed control. Mr. Chase's Cloche Gard. Notes 11. 1952, 73—76.

Curtis jr., O. F., New and old ways of killing woody weeds. Farm Res. (New York State Stat.) 18. 1952, nr. 3, p. 2.

Da C. Paixão, J., (Contribution to the study of the application of herbicides in tropical regions.) Agronomia, Rio de Janeiro, 11. 1952, 25—32.

Dearborn, C. H., Chemical weed killers and their use. Alaska agric. Exp. Stat. Circ. 18. 1952, 6 p.

DeFrance, J. A., and **Simmons, J. A.,** Death knell for weeds. Flower Grower (New York) 39. 1952, nr. 4, p. 56, 97—98.

De Jong, P., The development of chemical methods of weed control. Plant.' Chron., Coimbatore, 47. 1952, 512—514.

Delle Coste, A. C., Los nuevos »matayuyos.« Chacra, Buenos Aires, 23. 1952, nr. 265, p. 44.

Denisen, E. L., Chemical weed control for strawberries. Iowa Farm Sci. 6. 1952, nr. 10, p. 13—157, 1 fig.

Derscheid, L. A., and **Stahler, L. M.,** Chemical control of weeds in South Dakota. South Dakota agric. Exp. Stat. Circ. 94. 1952, 24 p., 5 fig.

Dickson, B. T., Three notable developments in agriculture 1952 Farrer Oration. Agric. Gaz. New South Wales 63. 1952, 401—404.

Dmitriew, W. S., (Problems in evolution of species and control of weeds.) Sowjetsk. Agron., Moskwa, 10. 1952, nr. 4, p. 17—27.

Dodd, L., Bulb grower reduces costs by using weed sprays. Calif. Farmer (South. Ed.) 196. 1952, 520.

Domínguez Martin, J., Notas sobre un método de limpieza de matorral. Agricultura, Madrid, 21. 1952, 262—265.

Dotzenko, A. D., and **Whitworth, J. W.,** Oils for control of weeds on ditchbanks. New Mexico agric. Exp. Stat. Press Bull. 1065. 1952, 3 p.

Dunham, R. S., Nylund, R. E., Crim, R. F., and **Hansen, H. L.,** Chemical weed control in Minnesota, 1952. Minnesota Univ. agric. Ext. Pamphl. 181. 1952, 6 p.

Durr, E., Brush control on right of way by basal, stem, and trunk treatment. Proc. north centr. Weed Control Conf. 9. 1952, 64—65.

Dutton, W. C., Industry's contribution to a weed control program. Int. Grassland Conf. Abstr. Pap. 6 (B). 1952, 12.

Dutton, W. C., New herbicides. North centr. Weed Control Conf. Res. Rept. 9. 1952, 151—154.

Dutton, W. C., Other new materials. Proc. north centr. Weed Control Conf. 9. 1952, 102.

Dye, O., Missouri farmers take a second look at chemical brush control methods. Rur. electric Missourian 5. 1952, nr. 6, p. 3, 11.

Egler, F. E., Blanket versus selective spraying for brush control on right-of-ways. Proc. south. Weed Conf. 5. 1952, 141—143.

Egler, F. E., Herbicide effects in Connecticut vegetation, 1950. J. Forestry 50. 1952, 198—204.

Egler, F. E., Roadside brush control. Proc. nat. Shade Tree Conf. 28. 1952, 59—70.

Erickson, L. C., The control of annual weeds in row crops and vegetables. Res. Progr. Rept. 13th west. Weed Control Conf., Reno (Nev.), 1952, 108—117.

Ferreira, L. A., Installation of an engineered contract for chemical weeding. Hawaii. Sugar Technol. Rept. 1952, 3—5.

Fertig, S. N., 1952 weed control in field crops. New York agric. Coll. Cornell Ext. Bull. 821 (rev.). 1952, 6 p.

Fisher, C. E., Control of woody plants with herbicides. Agric. Chem., Baltimore, 7. 1952, 49, 115—118.

Foster, J. R., Comparison of present methods of application. Proc. north centr. Weed Control Conf. 9. 1952, 36—38.

Foster, R. L., Spraying is big business on the farm. [weeds, insect pests] Capper's Farmer (Kansas) 63. 1952, 21, 57.

Fulton, E. F., Weed control. Farming South Afr. 27. 1952, nr. 310, p. 33—36.

Garese, P., Herbicidas selectivos. Rev. Bolsa Com., Rosario (Argent.), 40. 1952, nr. 983, p. 7—8, 10—14.

Génin, G., L'emploi des produits chimiques dans la lutte contre les mauvaises herbes. Ind. chim., Paris, 39. 1952, 133—137, 161—164, 228—232.

Gešele, E. E., (Utilization of chemical method in weed control under conditions of Western Siberia.) Sowjetsk. Agron., Moskwa, 10. 1952, nr. 3, p. 70—73.

Geyer, B., Der Kampf gegen das Unkraut. Landw. Wochenbl. München 142. 1952, 430.

Glendening, G. E., A round-up of shrub control studies in the Southwest. Arizona Cattlelog 7. 1952, nr. 12, p. 5—12.

Gonggrijp, J., (The use of oil-containing herbicides in Indonesia.) Bergcultures, Batavia, 21. 1952, 215, 217, 219, 221, 223, 225, 227.

Gorbunowa, S., (Conference on problems of agrotechnical and chemical measures for weed control.) Sowjetsk. Agron., Moskwa, 10. 1952, nr. 6, p. 90—92.

Gould, C. J., Baur, K., and **Tremblay, T.,** Chemical weed control in bulbous plantings. Florists' Exch., New York, 118. 1952, nr. 18, p. 12, 47.

Granström, B., (New weed killers.) Växtodling, Uppsala, 7. 1952, 109—120.

Gray, J. H., I'm learning the hard way there's no easy way out of weeds. Farm, Ranch. Rev. (Canada) 48. 1952, nr. 10, p. 8—9.

Greenslade, R. M., The use of weedkillers. Entomologist, London, 85. 1952, 281—282.

Grigsby, B. H., Recommended practices in brush control. [2, 4-D, 2, 4, 5-T and ammonium sulfamate] Michigan Forestry, Park Assoc. Ann. Meetg. 26. 1952, 1—2.

Grøntved, P., (Danish farmers can get weed free fields; our most important weeds and their control.) Husmandshjemmet (Danmark) 2, 1952, nr. 15, p. 13.

Gudnason, A., (Hormones and other materials for control of weeds.) Freyr, Reykjavik, 47. 1952, 9—12.

Guillaume, A., Les herbicides modernes. Nature, Paris, 3201. 1952, 26—27.

Hagsand, E., (Control of weeds in spring planted forage crops requires solicitude.) Lantmannen, Uppsala, 36. 1952, 165—167.

Hanf, M., Betriebswirtschaftliche Bedeutung der Unkrautbekämpfung. Gesunde Pflanzen 4. 1952, 25—28, 1 Abb.

Hansen, H. L., Control of woody plants. North centr. Weed Control Conf. Res. Rept. 9. 1952, 51—72.

Haring, R. C., Report on weed control research. Bull. north amer. Gladiolus Counc. 29. 1952, 74—75.

Hartogensis, H., Chemical brush control. Teleph. Engin., Managem. 56. 1952, nr. 3, p. 43, 46, 48.

Hartogensis, H., Yes — chemical sprays pay! [right-of-way brush control] Rur. Electrif. Mag. 10. 1952, nr. 7, p. 68.

Heagy, A. B., Report on herbicides. J. Assoc. off. agric. Chemists, Washington, 35. 1952, 377—381.

Helgeson, E. A., Control methods followed in the United States. Proc. north centr. Weed Control Conf. 9. 1952, 25—26.

Heliqvist, H., (Spraying technique and the use of chemical weed killers.) Växtodling, Uppsala, 7. 1952, 78—94.

Hemphill, D. D., Fruits and ornamentals. North centr. Weed Control Conf. Res. Rept. 9. 1952, 135—138.

Hemphill, D. D., Murneek, A. E., and **Smith jr., J. E.,** Chemical weed control in horticultural crops. Missouri, agric. Exp. Stat. Bull. 568. 1952, 28 p.

Hinkle, D. A., Williams, F., and **Peek, N. S.,** Chemical weed control; 1951 screening experiments. Arkansas agric. Exp. Stat. Rept. ser. 31. 1952, 32 p.

Hoff, W. S., Experiments in chemical control of brush on telephone lead right-of-way in the State of Oregon. Down to Earth, Midland (Michigan), 8. 1952, 5—7.

Hofsten, C. G. v., (Chemical weed control.) Lantmannen, [Uppsala], 36. 1952, 210, 214.

Holz, W., Unkrautbekämpfung in Spezialkulturen (Flachs, Erbsen, Möhren, Zwiebeln). Bundesminist. Ernährg., Landw., Forsten, Frankfurt/M., 1952, Sdr.-H., S. 33.

Holz, W., Zur Auswertung der Unkrautbekämpfungsversuche 1952. Landw.bl. Weser-Ems 99. 1952, 1235—1236.

Hovey, C. L., Eastern States can help you control weeds. East. States Co-op. 28. 1952, nr. 4/5, p. 12—13.

Huber, E. H., Let's kill trees. New York, State Conservationist 6. 1952, nr. 6, p. 23.

Hughes, C. E., More beef from our brushy acres. [brush control on range lands] Pacific Stockman 18. 1952, nr. 10, p. 15—16, 22.

Hunt, J. L., Weed control. [Ireland.] Ann. agric., Bloodstock Survey, Spring Show Rev. 1. 1952, 77—78.

Ivens, G. W., Blackman, G. E., and **Woodford, E. K.,** The development of selective weed control in horticultural crops. Rept. 13. int. hortic. Congr. 1952, 10 p.

Jacob, W. C., Chemical weed control in canning crops. Nat. Canners Assoc. Inform. Let. 1371. 1952, 83—84.

James, E., and **Alexander, E. D.,** Georgia weeds and how to control them. Georgia agric. Coll. Ext. Bull. 502. 1952, 97 p.

Johnson, F. S., Report on preliminary investigation on chemical weed control in Venezuela 1951. Down to Earth, Midland (Michigan), 8. 1952, nr. 3, p. 7. — IBEC Res. Inst. Bull. 2. 1952, 20 p.

Jones, J. P., Chemical methods of weed control; research scheme explained. Rhodesian Farmer 5. 1952, nr. 34, p. 11, 19.

Jones, K. W., and **Andrews, F. W.,** The chemical control of water weeds in the Gezira area of the Sudan. Ann. appl. Biol. 39. 1952, 120—128.

Keenan, W. C., Less brush — more pastures. [chemical brush control] Kentucky Farmer 88. 1952, nr. 8, p. 11—13, 24.

Kindler, D., We tried aerial brush control and got some interesting results. Rural Electrif. News, Washington, 18. 1952, 18—19.

Kindler, R., Die Unkrautbekämpfung mit Kalkstickstoff. Dtsch. Landw. 3. 1952, 526—531, 10 Abb.

King, L. J., Crag herbicide 1. Plants and Gard., New York, 8. 1952, 49—50.

Klingman, G. C., Weed control. Better Crops, New York, 36. 1952, nr. 7, p. 19—20, 42.

Klingman, G. C., and **Westmoreland, W. G.,** New attack weapons win war on weeds. South. Seedsman (Texas) 15. 1952, nr. 2, p. 28—29, 69, 72.

Knust, H. G., Chemical weed control. [Australia] Cane Growers' Quart. Bull. (Queensland) 15. 1952, 77—79.

Könnecke, G., und **Zoschke, M.,** Alte und neue Verfahren der Unkrautbekämpfung. Dtsch. Landw. 3. 1952, 59—65.

Kott, S. A., Conference at the All-Union Lenin Academy of Agricultural Sciences on problems of weed control. Dostizheniia nauki i Peredovogo Opyta v Sel'skohoz. (USSR) 7. 1952, 82—84.

Kvello, B., (Plan in the weed control.) Norsk Landbruk, Oslo, 18. 1952, 167—170.

Larson, A. H., Some new weed problems. Proc. north centr. Weed Control Conf. 9. 1952, 88—90.

Leasure, J. K., Weed control with chemicals. Tennessee agric. Exp. Stat. Progr. Rept. 1. 1952, 4, 11.

Leonard, O. A., et al., Classification of woody plant responses to herbicides. Res. Progr. Rept. 13th west. Weed Control Conf., Reno (Nev.), 1952, 71—88.

Lepore, A., 10 ways to use herbicides to control roadside vegetation. Publ. Works 83. 1952, nr. 6, p. 79—80.

Lidstone, J. D., Low volume weed spraying. Farming Gloucestershire 11. 1952, 31, 33, 35.

Loomis, W. E., Basic studies. North centr. Weed Control Conf. Res. Rept. 9. 1952, 155—161.

MacDonald, W. P., Defoliants, desiccants and preharvest weed control. North centr. Weed Control Conf. Res. Rept. 9. 1952, 144—150.

McMurray, S. F., Leasure, J. K., Epps, J., and **Jones, T. H.,** Chemical control of weeds in field crops. Tennessee agric. Exp. Stat. Bull. 224. 1952, 20 p.

Maier, E. A., Thoughts on Louisiana's weed problem. Sugar J., New Orleans, 14. 1952, nr. 10, p. 39—41.

Maletic, J. T., Short cuts to weed killing calculations. 6. How to apply aromatic solvents to control waterweeds. Reclam. Era, Washington, 38. 1952, 18—19.

Mársico, O. J. V., Modernos procedimientos de destrucción de malezas. Almanaque Minist. Agric., Ganad., Buenos Aires, 26/27. 1951/1952, 409—410.

Martin, R., Utilisation agricole des crudesammoniac. [herbicide and fertilizer] Tarn-et-Garonne agric. (France) 15. 1952, 48.

Mather, H. J., Weed screenings and their disposal. Proc. north centr. Weed Control Conf. 9. 1952, 18—19.

Matthews, L. J., Chemical methods of weed control. I. New Zealand, J. Agric. 84. 1952, 273—275, 277—279.

Meadly, G. R. W., Low volume spraying for weed control. Queensland Fruit, Veg. News (Austr.) 2. 1952, nr. 20, p. 13—14.

Mullison, W. R., Brush control. Plants and Gard., New York, 8. 1952, 53—55.

Muzik, T. J., and **Cruzado, H. J.,** Increase in herbicidal activity of sodium trichloroacetate when combined with some contact herbicides. Agron. J., Washington, 44. 1952, 383—384.

Muzik, T. J., Luvisi, G. W., and **Cruzado, H. J.,** A method for statistical evaluation of new herbicides. Agron. J., Washington, 44. 1952, 91—92.

Nickell, L. G., Chemicals for weed control. Plants and Gard., New York, 8. 1952, 40—41.

Nielsen, O., (We must work together in weed control.) Husmandshjemmet (Danmark) 2. 1952, nr. 15, p. 12.

Nieminen, L., Sprays for combating weeds. Teho (Finland) 4. 1952, 178—179.

Noone, J. A., Complying with government regulations in merchandising herbicides United States. Proc. north centr. Weed Control Conf. 9. 1952, 47.

Nylund, R. E., Onions, potatoes, and sweet corn. North centr. Weed Control Conf. Res. Rept. 9. 1952, 119—125.

Oberhauser, S. J., Weed control on railroad right-of-way. Proc. north centr. Weed Control Conf. 9. 1952, 86—87.

Orchard, H. E., and **Warner, R. L.,** Chemicals for weed control. J. Dept. Agric. South Austr. 55. 1952, 510—522.

Osvald, H., (»Research on weed control« at the Institut of Plant Husbandry 1949—1951.) Växtodling, Uppsala, 7. 1952, 7—10.

Otis, C. E., Developing new herbicides. Comm. Fertil., Atlanta, 85. 1952, nr. 2, p. 65—69.

Otis, C. E., et al., Use of herbicides for control of weeds in drying and maturing crops. Res. Progr. Rept. 13th west. Weed Control Conf., Reno (Nev.), 1952, 157—165.

Overholt, P. M., Complying with government regulations in merchandising herbicides. Proc. north centr. Weed Control Conf. 9. 1952, 46—47.

Parisinos, J., Chemical weed control. Countryman, Nicosia, 6. 1952, 16—17.

Payne, G. F., To spray or not to spray. [weed control on ranges] Montana State Coll. Farmer 5. 1952, nr. 3, p. 8.

Petersen, H. I., Arsoversigt for Statens Ukrudtsforsøg 1950. (The Danish Institute for Weed Research 1950.) Tidsskr. Planteavl, København, 55. 1952, 361—368.

Petersen, H. I., (Chemical control of weeds.) Husmandshjemmet (Danmark) 2. 1952, nr. 15, p. 10.

Petersen, H. I., Experiences with the effects of chemical herbicides in 1951. Dansk Landbrug, Aarhus, 71. 1952, 23—25, 36—37.

Petersen, H. I., (Weed control in the garden.) Husmandshjemmet (Danmark) 2. 1952, nr. 15, p. 2.

Phillips, W. M., Weed control. Kansas agric. Exp. Stat. Circ. 289. 1952, 24—25.

Piacco, R., (Use of herbicides.) Riso (Italia) 1. 1952, nr. 4, p. 14—17.

Playfair, L., Dormant spraying of woody growth. Proc. north centr. Weed Control Conf. 9. 1952, 63—64.

Poletaef, N., Lutte chimique contre les mauvaises herbes. Rev. agric. Afr. Nord 50. 1952, 100—106, 120—124.

Rademacher, B., Der heutige Stand der Unkrautbekämpfung mit chemischen Mitteln. In: Unkraut-Bekämpfung (Verlag Kommentator, GmbH., Frankfurt/M. 1952), S. 10—16, 4 Abb.

Rademacher, B., Unkrautbekämpfung. In: Handbuch der Landwirtschaft Bd. 1 (P. Parey, Berlin u. Hamburg, 2. Aufl. 1952), S. 310—352, Abb. 92—103.

Randolph, C., Deschutes' »weed holiday«. [weed control of the lateral and canal system, Duschutes irrigation project] Reclam. Era, Washington, 38. 1952, nr. 9, p. 210—212.

Reynolds, J. G., Clearing the right of way. [brush eradication] Teleph. Engin., Managem. 56. 1952, nr. 4, p. 38—41, 78, 80, 82—84, 86.

Reyntens, H., (Together with selective weed control by means of synthetic herbicides in the turf of grazed orchards, meadows and pastures, also destruction of certain inferior grass-species by mechanical treatments.) Meded. Landbouwhoogesch., Opzoek. stat. Gent 17. 1952, 1—15.

Riccitelli, J. A., Normas para la correcta disposición de los rociadores de herbicidas selectivos. Rev. Fac. Agron., Vet., Buenos Aires, 13. 1952, 309—324, 4 fig.

Riepma, P., Interface phenomena and selectivity in chemical weed control. A review. Landbouwkdg. Tijdschr. 64. 1952, 387—395.

Riepma, P., Remarks on chemical weed control in arable agriculture with reference to observations in practice. Centr. Inst. landbouwkdg. Onderz., Wageningen 1952, 28 p.

Ripperton, J. C., and **Hanson, N. S.,** Herbicides control woody plants. Hawaii Farm Sci. [Hawaii Stat.] 1. 1952, nr. 1, p. 4—5.

Robbins, W. W., Crafts, A. S., and **Raynor, R. N.,** Weed control. A textbook and manual. MacGraw-Hill Book Comp., Inc., New York/London/Toronto 1952. 2. ed., 503 p., 155 fig.

Robles, L. R., La lucha por el bosque. Mensajero forestal (Mexico) 99. 1952, 6, 38—39.

Rosenstock, H. A., Unkrautbekämpfung auf Kulturflächen. Werkzeuge und Kosten. Forstarchiv 23. 1952, 110—112, 1 Abb.

Royce, R. D., The distribution of some of the more important toxic plants of South-Western Australia. J. Dept. Agric. West. Austr. (ser. 3) 1. 1952, 845—853.

Russchen, (Weed control in the United States.) Groninger Landbouwbl. (Nederland) 30. 1952, nr. 43, p. 4, 13. — Landbode (Nederland) 6. 1952, nr. 44, p. 15—16.

Russell, E. W., Weed control. Farm Mech. (England) 4. 1952, 472—475.

Russell, M., Weed battle. Colorado Rancher, Farmer 6. 1952, nr. 20, p, 1, 28.

Schmidt, H., Zur Entwicklung der chemischen Unkrautbekämpfungsmittel. Nachr.bl. dtsch. Pfl.schutzd., Berlin, NF. 6. 1952, 187—196, 1 Abb.

Schrader, Die Unkrautbekämpfung. Hannov. land-, forstw. Ztg. 105. 1952, 397—398.

Shaw, A. F., Ways and means of getting information on weed and their control to the farmer. Proc. north centr. Weed Control Conf. 9. 1952, 81—82.

Shaw, W. C., and **Brodell, A. P.,** Chemical killers — farmers turn to new weed control methods. West. Dairy J. 8. 1952, nr. 6, p. 70—72, 74.

Shaw, W. C., and **Brodell, A. P.,** Killing weeds with chemicals. Farmers' Digest, Columbia (Pennsylv.), 15. 1952, 53—56.

Slife, F. W., Preharvest spray and crop dessicants. Proc. north. centr. Weed Control Conf. 9. 1952, 91—92.

Smith, N. G., What good are weeds? Farmer, Bridgwater, 7. 1952, nr. 2, p. 39—40.

Sokolow, F., (Control of weed infestation of fields during soil cultivation before planting.) Khlopkovodstvo 2. 1952, 9—15.

Sokolow, N. S., (Weeds and their elimination.) [Czechoslovakia] Socialist. Zeměd. (Čescosl.) 2. 1952, 182—187.

Stahler, L. M., FM problem study report No. 10: chemical weed and brush control. Farm Managem. 2. 1952, nr. 4, p. 35—50.

Stenberg, J. N., Experiences in transmission spraying. Michigan. Forestry, Park Assoc. Ann. Meetg. 26. 1952, 2—4.

Stetten-Aystetten, K. v., Durch Unkrautbekämpfung zu höheren Erträgen. Landw. Wochenbl. München 142. 1952, 643.

Stewart, J. A., Weed control in general farm practices. Proc. Canada nat. Weed Comm., East. Sect., 5 (1951). 1952, 109—111.

Stöhr, W., Vorbeugung ist die beste Unkrautbekämpfung. Landw. Wochenbl. Kurh., Waldeck 167. 1952, 304.

Suggitt, J. W., Dormant season brush control is easier and more effective. Electr. World, New York, 137. 1952, nr. 18, p. 89—91.

Suggitt, J. W., The laboratory evaluation of woody plant herbicides. Proc. Canada nat. Weed Comm., East. Sect., 5 (1951). 1952, 128—138.

Suggitt, J. W., Recent research in chemical brush control. Proc. north centr. Weed Control Conf. 9. 1952, 59—63.

Sullivan, T. J., Chemical brush control along telephone lines in Iowa. Proc. north centr. Weed Control Conf. 9. 1952, 67.

Sundelin, G., (Out with the weeds.) Mjölkpropagandan (Sverige) 29. 1952, 74—75.

Swanson, H., They've made weed control work. [in Murray County, Minnesota] Country Gentleman, Philadelphia, 122. 1952, nr. 6, p. 58—59.

Templeman, W. G., Chemical weed control. Manufactg. Chemist, London, 23. 1952, 8—11.

Thornton, B., Weed control, a roundup of progress made. Colorado Farm, Home Res. 3. 1952, nr. 3, p. 3—5, 9—10.

Thornton, B. J., Classification of perennial herbaceous weed crop responses to herbicides. Res. Progr. Rept. 13th west. Weed Control Conf., Reno (Nev.), 1952, 32—43.

Thornton, B. J., Controlling farm and ranch weeds. Colorado Farm, Home Res. 3. 1952, 12—13.

Tindall, C., Can we whip weeds? Missouri Ruralist, St. Louis, 93. 1952, nr. 8, p. 4—5.

Tomaselli, R., Relazione su prove di diserbo della canna presso la SAICI torviscosa. Not. Malattie Piante nr. 19. 1952, 23—28.

Tomizawa, C., (Some new organic herbicides.) J. Plant Prot., Tokyo, 42. 1952, 458—462.

Trevett, M. F., and Cunningham, C. E., A guide for the use of chemical weed killers. Maine agric. Exp. Stat. Mimeogr. Rept. 25. 1952, 13 p.

Verdejo Vivas, C., Herbicidas. Ion, Rev. españ. Quím. apl., Madrid, 12. 1952, 587—594.

Vidme, T., (A brief guide for chemical control of garden weeds. Minneliste Hagedyrkere norske Hageselskap (Norge) 1952, 7—8.

Warren, G. F., Selective herbicides. Veg. Grower's Assoc. Amer. Ann. Rept. 44. 1952, 65—69.

Waywell, C. G., A progress report on foliage sprays and bark treatments. Proc. Canada nat. Weed Comm., East. Sect., 5 (1951). 1952, 116—119.

Wemmert, N., (Weed control in spring forage plantings with grass mixed in.) Lantmannen, [Uppsala], 36. 1952, 333.

Wenzl, H., Zur statistischen Auswertung von Versuchen mit Herbiziden. Pflanzenschutzberichte, Wien, 9. 1952, 56—57.

Willard, C. J., Weed killers. Successful Farming (Iowa) 50. 1952, nr. 5, p. 44—45, 106—108.

Willis, J. D., Methods used to eradicate vegetation along creeks, drains and sloughs in the Shasta area. Proc., Pap. Calif. Mosquito Control Assoc. 20. 1952, 90—92.

Wilson, J. S., The importance of spray volume in the application of a basal bark spray. Proc. Canada nat. Weed Comm., East. Sect., 5 (1951). 1952, 60—61.

Wold, A., (Weed control in agriculture.) Samvirke, Oslo, 47. 1952, 43—46.

Wolfe, H., 4-H weed project. Washington State Coll. Ext. Mimeogr. 1291. 1952, various Pag.

Wood, H. E., Canadian conferees discuss developments in herbicides. Agric. Chem., Baltimore, 7. 1952, 55, 111, 113.

Woodforde, A. H., The Noxious Weeds Act, 1938 — additional weeds proclaimed. Tasmanian J. Agric. 23. 1952, 19—24.

Woodward, C. H., Newest weed controls. Flower Grower (New York) 39. 1952, nr. 6, p. 38—39, 70—71.

Young, D. W., and Loomis, W. E., Control of vegetation on roadbeds and similar areas. Proc. north centr. Weed Control Conf. 9. 1952, 47—50.

Zonderwijk, P., (Weed control remedies and their application.) Maandbl. Landbouwvoorl.dienst, 's-Gravenhage, 9. 1952, 132—137.

Chemical control of weeds. South afr. Sugar J. 36. 1952, 545, 547, 549, 553, 555.

Chemical weed control. Ontario Dept. Agric. Ext. Circ. 75 A. 1952, 14 p.

Unkrautbekämpfung. Bundesminist. Ernährung, Landw., Forsten, Frankfurt/M. 1952. 39 S.

Wachstumsregulatoren
Regulators of the growth
Régulateurs de la croissance

Åberg, E., (Effect of pure 2-methyl-4-chlorophenoxyacetic acid and closely related chemical substances.) Växtodling, Uppsala, 7. 1952, 95—108.

Åberg, E., (Methoxone esters in weed control.) Växtodling, Uppsala, 7. 1952, 121—122.

Åberg, E., and Hagsand, E., (Hormone derivatives in undersown crops and in grass seed production fields.) Växtodling, Uppsala, 7. 1952, 62—70.

Åberg, G., Knutsson, G., and Roland, M., (The effect of trichloroacetic acid on weeds and cultivated plants.) Växtodling, Uppsala, 7. 1952, 11—24.

Alban, E. K., Octachlorocyclohexanone and methyl, ethyl, and isopropyl esters of trichlorobenzoic acid. Proc. north centr. Weed Control Conf. 9. 1952, 98—99.

Anderson, W. P., Linder, P. J., and Mitchell, J. W., Evaporation of some plant growth regulators and its possible effect on their activity. Science, Lancaster, 116. 1952, 502—503.

Audus, L. J., The decomposition of 2, 4-dichlorophenoxyacetic acid and 2-methyl-4-chlorophenoxyacetic acid in the soil. J. Sci. Food, Agric., London, 3. 1952, nr. 6.

Baas Becking, L. G. M., and Everson, R. G., Early effects of growth substances. Nature, London, 170. 1952, 1019.

Baird, G. T., Weed control with 2, 4-D. Utah State agric. Coll. Ext. Fact. Sheet 10. 1952, 2 p.

Bohmont, D. W., Shale oil — will its double advantage make it become a new farm chemical? [growth substance and herbicide] Farm Chem. 115. 1952, nr. 3, p. 12—15.

Brian, R. C., and Rideal, E. K., On the action of plant growth regulators. [MCPA] Biochim., biophys. Acta 9. 1952, 1—18.

Buchholtz, K. P., Strengthening industry-government cooperation through the NCWCC. Proc. north centr. Weed Control Conf. 9. 1952, 45—46.

Buchner, A., Die Wirkung der 2, 4-D-Mittel. Dtsch. landw. Presse 75. 1952, 117, 1 Abb.

Chouard, P., Coup d'oeil sur les emplois agricoles et horticoles des substances de croissance ou »auxines de synthèse« autres que les emplois herbicides. Phytoma, Paris, 5. 1952, nr. 40, p. 49—53.

Churchward, E. H., Chemical control of weeds on an irrigated farm at Bundaberg. Proc. 19th Conf. Queensland Soc. Sugar-Cane Technologists 1952, 143—146.

Ciferri, R., Sensibilita' media al 2, 4-D delle malerbe di seminati a frumento e a riso. (Average sensibility of weeds to 2, 4-D.) Not. Mal. Piante nr. 21. 1952, 47—51.

Cock, R. E., Precautions in the use of hormone herbicides. Tasmanian J. Agric. 23. 1952, 49—50.

Collins, W. B., and **Everett, C. F.,** CMU experiments at Fredericton. Proc. 5th Meetg. east. Sect. nat. Weed Comm., Quebec, 1951. 1952, 39—42.

Donie, V., Moderne Unkrautbekämpfung auf hormonaler Basis. Saarl. Bauernbl. 6. 1952, 74.

Ehrenpfordt, V., Zur Frage der direkten Ertragssteigerung durch Unkrautbekämpfungsmittel auf Hormonbasis. Dtsch. Landw. 3. 1952, 493.

Eickstedt, H. v., Zwei neue Wuchsstoffmittel. [MH und TCA] Dtsch. landw. Presse 75. 1952, 122.

Ennis jr., W. B., Some physiological aspects of selective herbicidal action. Proc. Assoc. south. agric. Workers 49. 1952, 174—175 (Abstr.).

Ferguson, W., and **Jasmin, J. J.,** Weed control studies with CMU. Proc. Canada nat. Weed Comm., East. Sect., 5 (1951). 1952, 34—35.

Gallup, A. H., and **Gustafson, F. G.,** Absorption and translocation of radioactive 2, 4-dichloro-5-iodo^{131}-phenoxyacetic acid by green plants. Plant Physiol., Lancaster, 27. 1952, 603—612.

Gattis, J. L., and **Francisco, D.,** Chemical brush control of rights-of-way in the Tennessee Valley region. Proc. south. Weed Conf. 5. 1952, 143—145.

Gaudron, J., y **Wille, J. E.,** El hierbicida »sodiumTCA« 90%. Vida agríc., Lima (Perú), 29. 1952, 195.

Göksel, N., Modern yabancî ot mücadelesinde 2, 4-D'li preparatlar kullanirken dikkat edilmesi gerekli bazî noktalar. (Einige Punkte, die bei der modernen Unkrautbekämpfung mit 2, 4-D-Präparaten beachtet werden müssen.) (Engl. Zusammenfassg.) Tomurcuk, Istanbul, 1952, nr. 11, p. 9—11.

Göksel, N., ve **Teoman, S.,** 2, 4-D preparatlarinin tesiri ile kültür bitkilerinde meydana gelen deformasyonlar üzerinde bazı arastırmalar. (Some weed control tests have been performed with chemicals containing 2, 4-D.) Bitki Koruma Bült. (Bull. Plant Prot.), Ankara, 1952, nr. 3, p. 31—46, 17 fig.

Gordon, N., and **Beroza, M.,** Spectrophotometric determination of small quantities of 2, 4-dichlorophenoxyacetic acid and 2, 4, 5-trichlorophenoxyacetic acid using partition chromatography. Analyt. Chem., Washington, 24. 1952, 1968—1971.

Hansen, J. R., and **Buchholtz, K. P.,** Absorption of 2, 4-D by corn and pea seeds. Agron. J., Washington, 44. 1952, 493—496.

Hauser, E. W., and **Young, D. W.,** Penetration and translocation of 2, 4-D compounds. Proc. north centr. Weed Control Conf. 9. 1952, 27—31.

Helgeson, E. A., Kratochvil, D. E., and **Widdifield, R. B.,** Weed control with T.C.A. and M.C.P. North Dakota agric. Coll. Ext. Circ. A. — 175. 1952, 4 p.

Hemphill, D. D., CMU as a herbicide for horticultural crops. Proc. north centr. Weed Control Conf. 9. 1952, 70—71.

Hemphill, D. D., Herbicidal use of sodium 2, 4-dichlorophenoxethyl sulfate (SES) and 2, 4-dichlorophenoxyethyl benzoate (SESSIN). Proc. north centr. Weed Control Conf. 9. 1952, 99.

Henrard, P., Quelques remarques concernant l'emploi du 2, 4 D. Ind. chim., Paris, 39. 1952, 97—100.

Holly, K., The effects of volume applicationrate on the activity of 2, 4-dichlorophenoxyacetic acid and 2-methyl-4-chlorophenoxyacetic acid. J. Sci. Food, Agric., London, 7. 1952, 308—312, 2 fig.

Jensen, H. L., and **Petersen, H. I.,** Detoxication of hormone herbicides by soil bacteria. Nature, London, 170. 1952, 39—40. — Acta agric. Scand., Stockholm, 2. 1952, 215—231, 5 fig.

Johnston, H. W., Plant hormones, with special reference to weed control. New Zealand Sci. Rev. 10. 1952, 62—68.

Ketelaar, J. A. A., Gersmann, H. R., and **Beck, M.,** An improved method for the determination of 2, 4 D acid (2,4-dichlorophenoxy acetic acid) and of MCPA (2-methyl-4-chlorophenoxy acitic acid) in herbicidal formulations. Rec. Trav. chim. Pays-Bas 71. 1952, 497—500.

King, N. C., Chemical weed killers. South afr. Sugar-J. 36. 1952, 699.

Knowles, G., The effect of CMU on annual weeds and on nine different crops when applied before emergence. Proc. 5th Meetg. east. Sect. nat. Weed Comm., Quebec, 1951. 1952, 36.

Knowles, G., The effect of CMU on deep rooted perennials. Proc. 5th Meetg. east. Sect. nat. Weed Comm., Quebec, 1951. 1952, 37.

Künnemann, Zu »Wuchsstoffhaltige Unkrautbekämpfungsmittel«. Hannov. land-, forstw. Ztg. 105. 1952, 504.

Kumar, L. S. S., and **Solomon, S.,** The role of synthetic hormones in combating weeds of the Bombay State. Poona agric. Coll. Mag. 43. 1952, 61—69.

Lasnier, G. G., Le 2, 4-D; un auxiliaire qui peut sauver des millions à l'agriculture. Foyer rural, Canada, 11. 1952, nr. 9/10, p. 11.

Le Tourneau, D., and **Krog, N.,** The use of chromotropic acid for the quantitative determination of 2, 4-dichlorophenoxyacetic acid. Plant Physiol., Lancaster, 27. 1952, 822—827.

Ligett, W. B., Wolf, C. N., Hay, R. E., and **Uhl, D. P.,** A new plant growth regulator — α-Cyano-β-(2, 4-Dichlorophenyl) acrylic acid. Science, Lancaster, 116. 1952, 393—394, 1 fig.

Ling, L., El control de las malas hierbas con hormonas. Tierra, México, 7. 1952, 448—450, 766—769.

Ling, L., Hormonas herbicidas. Mensajero agríc. (Perú) 77. 1952, 8—12, 53. — Asoc. Gen. de Agric. 328. 1952, 6, 8. — Hacienda 47. 1952, nr. 9, p. 41—44, 58, 60, 62.

Ling, L., Weed control by growth-regulating substances. FAO, Rom, Agric. Stud. nr. 13. 1952, 3. ed., III + 35 p., 5 fig.

Loustalot, A. J., 2, 4-D can kill mature grasses. Agron. J., Washington, 44. 1952, 276—277.

McCall, G. L., »CMU«; new herbicide. Agric. Chem., Baltimore, 7. 1952, nr. 5, p. 40—42, 127—129.

McCall, G. L., The history and development of CMU. Proc. Canada nat. Weed Comm., East. Sect., 5 (1951). 1952, 26—28.

McCully, W. G., Tynan, J. A., and **Perry, B. A.,** Reaction of white brush [Aloysia ligustrina] to growth regulator herbicides. Texas Livestock J., Austin, 11. 1952, nr. 9, p. 20, 22. — Texas agric. Exp. Stat. Progr. Rept. 146. 1952, 3 p.

Makarova, V. A., (New chemical substances in weed control.) [2, 4-D and 2-methyl-4-chlorophenoxyacetic acid] Dostizheniîa nauki i Peredovogo Opyta Sel'sk. Khoz. (USSR) 4. 1952, 63—66.

Marini, E., Ricerche sulla mancata tossicita' per la itticfauna della risala di prodotti diserbanti a base di 2, 4-D E MCPA. Not. Mal. Piante nr. 19. 1952, 17—18.

Meadly, G. R. W., Growth regulating substances used for weed killing. J. Dept. Agric. West. Austr. 1. 1952, 761, 762, 763, 765.

Merkenschlager, F., Ergänzung zu dem »2, 4 D-Bericht« von M. Hanf. Ztschr. Pfl.bau, -schutz 3. 1952, 37—38, 2 Abb.

Mitchell, J. W., Effect of growth-regulating chemicals on seeds. Grain, Feed J. 's consolid. 109. 1952, nr. 4, p. 15—16.

Munakata, K., Colorimetric determination of 2, 4-D with chromatropic acid. Japan Analyst 1. 1952, 199—200.

Ono, H., The effects of 2, 4-dichlorophenoxyacetic acid upon the growth of roots. Bot. Mag., Tokyo, 65. 1952, 224—227.

Piacco, R., (Use of hormone herbicides.) Riso (Italia) 1. 1952, nr. 6, p. 20—22.

Pohl, R., Die Kressewurzel als Testobjekt für Wuchs- und Hemmstoffe. Ztschr. Bot. 40. 1952, 307—316.

Poletaef, N., Enquête sur le désherbage sélectif pratiqué en Tunisie pendant la campagne 1950—51. Colon franç. Tunisie (ser. 7) 45. 1952, nr. 2233, p. 1, 3.

Primost, E., Hormone bekämpfen Unkraut. Universum 7. 1952, Nr. 8, S. 229—232.

Ripley, P. O., 2, 4-D with additives of leaffeeding properties. Proc. north centr. Weed Control Conf. 9. 1952, 8—11.

Ripper, W. E., and **Baker, C.,** The relative toxicity of 2, 4-dichlorophenoxyacetic acid and 2-methyl-4-chlorophenoxyacetic acid to annual weeds. J. Sci. Food, Agric., London, 1952, 561—567.

Rogers, H. T., 2, 4-D war! Washington Farmer 77. 1952, 643.

Scurti, J., Sul meccanismo d'azione dei diserbanti selettivi. Le modificazioni istologiche e citologiche che l'agroxone produce sulle erbe infestanti. (On the mechanism of action of some selective herbicides. Histological and cytological changes of some weeds following agroxone applications.) Ann. Sperim. agr., Roma, 6 (n. ser.). 1952, 1684—1704, 5 tab.

Smith, M. S., Wain, R. L., and **Wightman, F.,** Studies on plant growth-regulating substances. V. Steric factors in relation to mode of action of certain aryloxyalkylcarboxylic acids. Ann. appl. Biol. 39. 1952, 295—307, 4 fig., 1 tab.

Snyder, G. R., Progress report with CMU weed killer on railway right-of-way (ballasted section). Proc. Canada nat. Weed Comm. East. Sect., 5 (1951). 1952, 29—31.

Stapp, C., und **Freter, R.,** Untersuchungen über die Wirkung von 2, 4D im Boden. I. Mitt. Eine verbesserte Nachweismethode und orientierende Versuche über die Haltbarkeitsdauer des Wuchsstoffes im Boden. II. Mitt. Die Reaktion von Bodenbakterien auf den Wuchsstoff. Phytopath. Ztschr. 18. 1951, 365—375, 19. 1952, 20—33, 1 Abb.

Stroud, S. W., Determination of 2, 4-dichlorophenoxyacetic acid. Analyst 77. 1952, 63—67.

Stryckers, J., De jongste ontwikkelingen inzake selectieve onkruidverdelging. Parasitica, Gembloux, 8. 1952, 131—140.

Stummeyer, H., Die neuere Entwicklung der Unkrautbekämpfung mit Wuchsstoffmitteln. Mitt. dtsch. Landw.-Ges., Frankfurt/M., 67. 1952, 203—204.

Tibbitts, T. W., and **Holm, L. C.,** Physiological studies on the behavior of TCA in vegetable crops and soils. Proc. north centr. Weed Control Conf. 9. 1952, 76—77.

Vradenburg jr., G. A., Synthetic hormones and other chemicals useful in growth control. Plants and Gard., New York, 8. 1952, 101—111.

Wiede, Unkrautbekämpfung mit Hormonmitteln in Weser-Ems. Landw.bl. Weser-Ems 99. 1952, 464—465.

Willard, C. J., Review of work with CMU as an herbicide. Proc. north centr. Weed Control Conf. 9. 1952, 101—102.

Wilson, J. S., Low volatile esters of 2, -4-D and 2, 4, 5-T. Proc. Canada nat. Weed Comm., East. Sect., 5 (1951). 1952, 64.

Wilson, J. S., Sodium TCA. [herbicide] Proc. Canada nat. Weed Comm., East. Sect., 5 (1951). 1952, 62.

Woewodin, A. W., (On eradicating perennial weeds by the aid of 2, 4-D herbicide.) Dokl. Acad. Nauk SSSR 84. 1952, 113—116.

Woewodin, A. W., (On increasing the effectiveness of the chemical method in controlling weeds.) [experiments in spraying wheat with 2, 4-D.] Dokl. Vsesoiuz. Akad. Sel'skohoz. Nauk im. V. I. Lenina (Proc. Lenin Acad. agric. Sci.) 17. 1952, nr. 6, p. 41-44.

Wolf, D. E., CMU (3(p-chlorophenyl)-1,1-dimethylurea) is Jeckyll and Hyde of weed killers. South. Seedsman (Texas) 15. 1952, nr. 2, p. 39, 58.

Wood, J. W., and **Fontaine, T. D.,** Synthetic plant-growth regulators. III. 2, 4-dichlorophenoxyacetic derivatives of amino acids. J. org. Chem., Baltimore, 17. 1952, 891—896.

Woodford, E. K., The mode of action of 2, 4-dichlorophenoxyacetic acid and 2-methyl-4-chlorophenoxyacetic. J. Sci. Food, Agric., London, 3. 1952, 349-353.

Wort, D. J., The effect of 2, 4-D on plant enzymes. Proc. north. centr. Weed Control Conf. 9. 1952, 32—34.

Zimmerman, P. W., Hitchcock, A. E., and **Kirkpatrick jr., H.,** Detection and determination of 2, 4-D as a contaminant by biological methods. Contrib. Boyce Thompson Inst. 16. 1952, 439—449.

Cleaning 2, 4-D rigs. Agric. Chem., Baltimore, 7. 1952, nr. 4, p. 117.

Pflanzenwuchsstoffe als Unkrautbekämpfungsmittel (Hedonal-Präparate, Tributon, Wuchsstoffpräparate zur selektiven Unkrautbekämpfung in Getreidekulturen, auf Grünland, an Wegrändern und im Forst). Bayerwerke Leverkusen 1952, 60 S., 16 Abb.

Some new uses for sodium TCA. Down to Earth, Midland (Michigan), 7. 1952, nr. 4, p. 16.

Wuchsstoffhaltige Unkrautbekämpfungsmittel. Hannov. land-, forstw. Ztg. 105. 1952, 421—422.

Nematozide im allgemeinen
Nematocides in general
Nematocides en général
= II 5 a p. 38

Acarizide im allgemeinen
Acaricides in general
Acaricides en général

Asquith, D., and **Kane, N. F.,** Mite control with concentrated acaricides. J. econ. Ent. 45. 1952, 60—65.

Manis, H. C., Mite species versus miticides. Trans. Idaho State hortic. Soc. 1952, 1—3.

Procter, C., New controls for red spider. [Tetranychus] Grower 37. 1952, 621—622.

Reynolds, H. T., Anderson, L. D., and **Swift, J. E.,** Acaricide dusts on vegetable and field crops in Southern California, 1949—1950. J. econ. Ent. 45. 1952, 359—365.

Stellwaag, Die rote Spinne (Paratetranychus pilosus) muß bekämpft werden! Weinbau 7. 1952, 100—101.

Van Dinther, J. B. M., Bestrijdingsproeven tegen Eriophyes avellanae Nal. en Eriophyes gracilis Nal. (Control experiments against Eriophyes avellanae Nal. and Eriophyes gracilis Nal.) Tijdschr. Plantenziekten 58. 1952, 96—103.

Vlasveld, W. P. N., (New preparations for the control of spider mites.) Fruitteelt, Arnhem, 42. 1952, 559.

Woudenberg, A. J., (New methods of controlling spider mites.) [Tetranychus] Fruitteelt, Arnhem, 42, 1952, 757—759.

Insektizide im allgemeinen
Insecticides in general
Insecticides en général

Ahrens, L., et Vandenput, R., La lutte contre les ennemis des principales cultures pérennes de la cuvette centrale congolaise. Dir. Agric., Forêts, Élevage, Colon., Bruxelles, 1952, 204 p.

Akuğur, M., Denemesi yapilan böcek öldürücü ilâçlardan birkaçi. (Einige im Versuch stehende Insektizide.) Tomurcuk, Istanbul, 1952, nr. 3, p. 16.

Allen, T. C., and **Casida, J. E.,** Absorption and translocation of insecticides in plants. Proc. Assoc. econ. Entomologists, North Centr. States Br., 7. 1952, 6—7.

Amstein, W. G., Garden insect control. Kansas Farmer, Topeka, 89. 1952, nr. 9, p. 20—21.

Bal, S. N., Gupta, B., and **Basu, U. P.,** Problems of insecticides in India. J. Sci. Club, Calcutta, 6. 1952, 14—18.

Barlow, F., and **Hadaway, A. B.,** Some factors affecting the availability of contact insecticides. Bull. ent. Res. 43. 1952, 91—100.

Beard, R. L., Effect of sub-lethal doses of toxicants on susceptibility of insects to insecticides. J. econ. Ent. 45. 1952, 561—567, 1 fig.

Belle, G., Comment lutter efficacement contre les mouches. Élevage et Cult. (Algérie) 4. 1952, nr. 37, p. 17—18.

Bellows, J. M., Panel on toxic pesticides. Proc. Florida State hortic. Soc. 65. 1952, 14—20.

Beran, F., (Quantitative toxikologische Studien an synthetischen Insektiziden.) Meded. Landbouwhoogesch., Opzoek.stat. Gent 17. 1952, 203—221.

Beran, F., und **Böhm, H.,** Untersuchungen über die insektizide Wirkung organischer Verbindungen. Mitt. chem. Forsch.inst. Wirtsch. Österr. 6. 1952, Nr. 2, S. 28—30.

Bishopp, F. C., Insecticide problems in the United States of America. Trans. IXth int. Congr. Ent., Amsterdam, 1 (1951). 1952, 1023—1029.

Bishopp, F. C., Issues involved in pesticide legislation. Agric. Chem., Baltimore, 8. 1952, nr. 2, p. 31—33, 137—139.

Bissell, T. L., Know your insect orders. Pest Control, Ohio, 20. 1952, nr. 12, p. 9—10, 12, 38.

Bowen, C. V., and **Hall, S. A.,** The organic insecticides. US Dept. Agric. Yearb. Agric. 1952, 209—218, 1 fig.

Breakey, E. P., Los insecticidas más modernos y su relativa toxicidad. Hacienda, New York, 47. 1952, nr. 5, p. 71, 83—84.

Breny, R., La défense des cultures. II. Morphologie et anatomie des insectes. Biologie et classification. La toxicité des insecticides. Terminologie phytopharmaceutique. III. Les propriétés physiques des insecticides. IV. Les insecticides d'ingestion. Bull. hortic. (Belgique) 7 (n.ser.). 1952, 3—7, 13, 35—39, 67—71.

Brotos, C., Específicos para combatir las plagas de la agricultura. Bol. Anexo Inst. Nac. Colon. (Uruguay) 3. 1952, nr. 23, p. 2.

Brown, A. W. A., Insect control by chemicals. Soap, sanit. Chem. 28. 1952, nr. 7, p. 135—137. — Proc. Mid-Year Meetg. chem. Specialt. Manufact. Assoc. Off. 38. 1952, 86—88.

Burk, V. F., and **Jenkins, L.,** Controlling garden insect pests. Missouri agric. Coll. Ext. Folder 6. 1952, 4 p.

Cabane, E., Evolution du problème de la lutte contre les pucerons. Dépêche commerc., agric. (France) 1952, 4.

Carreras Alté, A., Importancia de los insecticidas a través de los congresos internacionales. Ion, Rev. españ. Quím. apl., Madrid, 12. 1952, 578—586.

Carter, R. H., The inorganic insecticides. US Dept. Agric., Yearb. Agric. 1952, 218—222.

Champion, E., Safety factors in insect control; insecticides present many potential hazards unless they are expertly handled and applied. Bakers' Digest, Chicago, 26. 1952, 30—32.

Chenoweth, M. O., Are you ready for the harvest? Extensive use of proven grain protectants means profits to dealer and customer. South. Seedsman (Texas) 15. 1952, nr. 7, p. 21, 56—57, 62.

Chiesa Molinari, O., Tratamientos invernales en la huerta. [insect control] Pampa Argent. 25. 1952, nr. 296, p. 16.

Chiesa Molinari, O., Tratamientos primaverales en el jardin. [insect control] Pampa Argent. 25. 1952, nr. 297, p. 4, 25.

Cutkomp, L. K., Dahm, P. A., Stanley, J. M., and **Abramitis, W. W.,** New insecticides. [Hydrocarbons, phosphates and systemic insecticides] Proc. amer. Assoc. econ. Entomologists, North Centr. States Br., 7. 1952, 74—78.

Dalal, L. H., and **Shah, R. C.,** Synthetic insecticides. II—IV. [chemistry] J. indian chem. Soc. 29. 1952, 13—22, 77—82.

Davis, J. J., Careers in entomology. Pest Control, Ohio, 20. 1952, nr. 9, p. 18.

Decker, G. C., Legislative control of pesticide use. J econ. Ent. 45. 1952, 140—144.

Del Rivero, J. M., Los productos fitotera-péuticos y a lucha biológica. [insect control] Siembra (España) 8. 1952, 3—6.

Diem, J. J., Manufacturer, dealer and grower responsibilities in handling highly toxic pesticides. Florida Entomologist 35. 1952, 14—18.

Dodge, A. A., Uses and formulations of some synthetic organic insecticides. Amer. J. Pharm. 124. 1952, 251—263.

Döhring, E., Einige der für die Praxis wichtigen Eigenschaften der synthetischen Kontaktinsektizide. Schädlingsbekämpfung 44. 1952, 109—111.

Dresden, D., (The problem of insecticide resistance.) TNO - Nieuws (Org. toegepast - natuurwetensch. Onderz.), Amsterdam, 7. 1952, 370—374.

Ehrhardt, Schluß mit dem Ungeziefer! Techn. Bauern, Gärtner (Ausg. A), Baden, 4. 1952, 207—208.

Emmel, L., Insekten werden gegen Berührungsgifte resistent. Umschau 52. 1952, 138.

Erkut, A., Teoman, N., Evlerdeki zararlı haşerelere karşı neler tavsiye ediliyor? Bitki Koruma Bült. (Bull. Plant Prot.), Ankara, 1952, nr. 2, p. 57—64, 20 fig.

Fenton, F. A., Insidious new killers. [systemic insecticides] South. Seedsman (Texas) 15. 1952, nr. 2, p. 23, 74, 81.

Fernando, H. E., Notes on systemic insecticides. Trop. Agriculturist (Ceylon) 108. 1952, 125—126.

Fileni, E., Insecticides. II. [types] Terra, Firenze, 63. 1952, nr. 10, p. 3.

Finney, D. J., Probit analysis: a statistical treatment of the sigmoid response curve. [results of bioassays with insecticides and insect repellents] Univ.Press, Cambridge, 1952, 2. Ed., 318 p.

Fitzgerald, O. A., Watch the when in bug fighting. Idaho Farmer 70. 1952, 253, 281.

Fjelddalen, J., Systemiske midler. Biokjemisk bekjemping av skadedyr. (Systemische Insektizide. Biochemische Schädlingsbekämpfung.) Gartneryrket (Norge) 1952, 47.

Fjelddalen, J., (Testing of insecticides 1951.) Gartneryrket (Norge) 42. 1952, 283—284.

Fjelddalen, J., (Testing of preparations agains pests.) Norsk Hagetidend, Oslo, 68. 1952, 102—103.

Forgash, A. J., Fundamental investigations on the mode of action of insecticides. Proc. Mid-Year Meetg. chem. Specialt. Manufact. Assoc. Off. 38. 1952, 112—114.

Free, M., Tuck a towel around their necks, and dunk your house plants. [insecticide application] Home Garden 20. 1952, nr. 4, p. 60—61.

Friend, R. B., Insect control by chemicals. Amer. Scientist, New Haven, 40. 1952, 136—138.

Fritsch, H., Versuche zur Analyse des Angriffspunktes kontaktinsektizider Stoffe. Biol. Zentralbl. 71. 1952, 512—528, 4 Abb.

Frömming, E., und **Riemschneider, R.,** Über die Wirkung von Insektiziden auf Gastropoden. Mitt. II. Anz. Schädl.kunde 25. 1952, 186—189.

Gaines, J. C., and **Mistric jr., W. J.,** Effect of environmental factors on the toxicity of certain insecticides. J. econ. Ent. 45. 1952, 409—416, 1 fig.

Gardner, L. R., The insecticide industry outlook. Proc., Pap. Calif. Mosquito Control Assoc. 20. 1952, 46—47.

Gasser, R., Über das Verhalten von selektiven Insektiziden mit Tiefenwirkung in der Pflanze. Ber. schweiz. bot. Ges. 62. 1952, 66.

Gasser, R., Untersuchungen über selektive Insektizide mit Tiefenwirkung. Trans. IXth int. Congr. Ent., Amsterdam, vol. 1 (1951). 1952, 1037—1041.

Gates, D. E., and **King, C. L.,** Home garden pest control, 1953. Kansas State Coll. Agric. Ext. Leafl. 13 (rev.). 1952, 4 p.

Gentile, G., (Insecticides for Coccidae considered in relation to their effectiveness and the best percentages of utilization.) Giorn. agr., Roma, 62. 1952, 85—86.

Giannotti, O., (The application of insecticides in concentrated sprays.) Rev. Soc. rur. brasil., São Paulo, 32. 1952, nr. 376, p. 19.

Gómez Clemente, F., and **Planes García, S.,** Los insecticidas en el tratameinto de las plagas, de interes para la economia valenciana. Bol. Inst. Nac. Invest. agron., Madrid, 12. 1952, 105—113.

Grandori, R., (Modern insecticides in agriculture.) Boll. Agric., Milano, 86. 1952, nr. 18, p. 1.

Grégoire, C., L'emploi des insecticides à la ferme. Sillon belge 22. 1952, nr. 535, p. 1—2.

Grob, H., Freiland-Versuche und -Erfahrungen mit selektiven Insektiziden mit Tiefenwirkung. Trans. IXth int. Congr. Ent., Amsterdam, 17.—24. 8. 1951. 1952, vol. 1, p. 1042—1046.

Günthart, E., Insektizide Saatschutzmittel zur Bekämpfung von Wurzelschädlingen. Trans. IXth int. Congr. Ent., Amsterdam, 17.—24. 8. 1951. 1952, vol. 1, p. 1059—1061.

Haber, A., Walczymi ze szkodliwymi owadami. (Bekämpfen wir die schädlichen Insekten.) Las polski, Warszawa, 36. 1952, 39—40.

Hall, D. G., Our great outdoors and insect control. US Bur. Ent., Plant Quar., Washington, 1952. 6 p.

Hall, D. G., What you should know to succeed at municipal insect control. Public Works 83. 1952, nr. 7, p. 66—68, 106—108.

Haller, H. L., Chemicals control insects. Better Farming Methods 24. 1952, nr. 2, p. 14.

Haller, H. L., How insecticides are mixed. US Dept. Agric. Yearb. Agric. 1952, 202—204.

Haller, H. L., How pesticides are developed. Farm Chem. 115. 1952, nr. 12, p. 37, 39, 41.

Hammarlund, L., Systemiske insekticider. Gartnertidende, København, nr. 4. 1952, 1 p.

Hassett, C. C., and **Jenkins, D. W.,** (Use of fission products for insect control.) Nucleonics, New York, 10. 1952, nr. 12, p. 42—46.

Haudiquet, R., Chimiothérapie des plantes et insecticides systémiques. Dépêche commerc., agric. (France) 10. 1. 1952, 3.

Hellyer, A. G. L., New ways of killing plant pests. Country Life, London, 112. 1952, 840—841.

Helvey, T. C., Insecticidal effect of inert solid diluents. Science, Lancaster, 116. 1952, 631—632, 3 fig.

Hirose, K., (How to treat the data of insecticidal test. 6.) J. Plant Prot., Tokyo, 34. 1952, 178—181.

Hitchner, L. S., The insecticide industry. US Dept. Agric. Yearb. Agric. 1952, 450—454.

Hogan, T. W., The chemical control of insects and mites. II. Properties of the synthetic organic insecticides. J. Dept. Agric. Victoria 50. 1952, 559—564.

Hopf, H. S., Studies in the mode of action of insecticides. I. Injection experiments on the role of cholinesterase inhibition. Ann. appl. Biol. 39. 1952, 193—202.

Hopf, H. S., and **Boon, W. R.,** Studies in the mode of action of insecticides. I. Injection experiments on the role of cholinesterase inhibition. Trans. IXth int. Congr. Ent., Amsterdam, 1 (1951). 1952, 263—268.

Hunt, C. R., Insect control in the western Montana district. Crystal-ized Facts Sugar Beets 6. 1952, nr. 4, p. 16—17.

Ivy, E. E., Testing systemic insecticides. Agric. Chem. Baltimore, 7. 1952, nr. 11, p. 44—45, 121, 123.

Jaarsveld, A., Steensma, L. W., en **Zwartendijk, J.,** Bestrijding van ziekten en schadelijke dieren bij vaste planten. Tuinbouwgids, Den Haag, 1952, 474—479.

Jacks, H., Evaluation of insecticides in practice. New Zealand R. Soc. Sci. Congr. Rept. 7 (1951). 1952, 98.

Jacobsen, A. C. B., The chemistry of insecticides. South afr. ind. Chem., Johannesburg, 6. 1952, 125—127.

Jenkins, C. F. H., Insect pests and their control. J. Dept. Agric. West. Austr. 1 (n. ser.). 1952, 63—65, 67—71, 73—75.

Jones, G. D. G., and **Cooke, G. R.,** Low-volume sprays against insects. Farmer and Stock-Breeder 66. 1952, nr. 3277, p. 41.

Jones, L. R., and **Riddick, J. A.,** Separation of organic insecticides from plant and animal tissues. Analyt. Chem., Washington, 24. 1952, 569—571.

Jones, M. P., Pest control — a big job ahead. Ext. Serv Rev. US Dept. Agric. 23. 1952, 100—101.

Kerns, C. M., Repellents. Maryland Conservationist 29. 1952, nr. 4, p. 25—26, 31.

Kirchberg, E., Die gegenwärtige Insektizidsituation in den USA. (Ergebnisse einer Studienreise 1951.) Schädlingsbekämpfung 44. 1952, 21—30.

Knipling, E. F., The greater hazard — insects or insecticides. US Bur. Ent., Plant Quar., Washington, 1952, 16 p.

Koonce, B., Spare that toad. [crop-destroying insects] Southwest. Crop, Stock 6. 1952, nr. 6, p. 48—49, 53.

Kotte, W., Pflanzenschutz im Hochsommer. [Insektenkontrolle] Mitt.dtsch.-Landw.-Ges., Frankfurt/M., in: Reich der Landfrau 27. 1952, 219—220.

Krieg, H., Umwälzungen auf dem Gebiete des Pflanzenschutzes. [Insektizide] Seifen — Öle — Fette — Wachse, Augsburg, 78. 1952, 132.

Kulkarni, H. L., Some considerations in the application of insecticides. Mag. Bansilal Amritlal Coll. Agric. (India) 6. 1952, 3—5.

Larue, P., Sur l'action physique des traitement liquides. [insecticides] Prog. agric., vitic. 137. 1952, 275—276.

Lehman, A. J., Chemicals in foods: A report to the Association of Food and Drug Officials on current developments. Part II. Pesticides. Sections II—IV. US Assoc. Food, Drug Offic. 16. 1952, nr. 1—3.

Leiby, R. W., The latest on insect control through systemic insecticides. Better Farming Methods 24. 1952, 27.

León Ortega, M., Control de plagas, chinches, cucarachas, ratas, etc. Tierra, México, 7. 1952, 401—403.

Lepage, H. S., (Concentrated or low volume sprays.) Biológico, São Paulo, 18. 1952, 127—134.

Lepage, H. S., y **Giannotti, O.,** (Systemic insecticides.) Biológico, São Paulo, 18. 1952, 153—159.

Lettieri, N., (»Systemic« insecticides.) Giorn. agr., Roma, 62. 1952, 110.

Lhéritier, G., Les essais d'insecticides au laboratoire. Bull. Assoc. École Colon. Agric. Tunis 132. 1952, 33—36.

Lickerish, L. A., Laboratory studies with systemic insecticides. Proc. 3rd int. Congr. Crop Prot., Paris, 1952.

Little, D. H., How does pest control fit in food plant operations? Pest Control, Painesville, 20. 1952, nr. 5, p. 9—10, 34.

Lofgren, J. A., Garden insects and their control. South Dakota State Coll. Agric. Ext. Circ. nr. 480. 1952, 8 p.

Long, J., Organics and insects. [insect control through organic farming] Land 11. 1952, 99—100.

Loosjes, F. E., (Some technical appliances for the research of insecticides in the laboratory.) Meded. Landbouwhoogesch., Opzoek. stat. Gent 17. 1952, 88—93.

Luers, H., Zum Problem der Resistenz gegenüber Kontaktinsektiziden. Wiss. Ann. dtsch. Akad. Wiss., Berlin, 1. 1952, 506—514.

Mackay, I. A., Recent advances in insecticides. J. R. sanit. Inst., London, 72. 1952, 187—194.

McLeod, W. S., Summary of investigations on systemic insecticides in Canada. Canada Dept. Agric., Sci. Serv., Div. Ent. Res., Note Ser. E-7. 1952.

Maercks, H., Über Brauchbarkeit und Dosierung einiger insektizider Wirkstoffe für die Winter- und Spätbekämpfung von Tipula paludosa L. Nachr.bl. dtsch. Pfl.schutzd., Braunschweig, 4. 1952, 129—133.

Magnin, J., Utilisation en agriculture d'insecticides organiques de synthèse. Centre Rech. agron. Bingerville Bull. nr. 5. 1952, 52.

Manvilli, B., (Care and protection of crops). Boll. Agric., Milano, 86. 1952, nr. 39, p. 1—2.

March, R. B., Aspects of insecticide resistance. Proc., Pap. Calif. Mosquito Control Assoc. 20. 1952, 47—52.

Marchand, J. F., Microtests for cholinesterase, interpretation after nerve gas or agricultural insecticide exposures. J. amer. med. Assoc., Chicago, 149. 1952, 738—740.

Martelli, M., Gli insecticidi sistemici. Inform. Fitopat., Bologna, Pubbl. quindic. (Gr. II), 2. 1952, 9—11.

Martin, H., Chemistry and entomology. Canada. Sci. Serv., Div. Ent., Newslet. 30. 1952, nr. 6, p. 1—2.

Martin, J. T., Agricultural insecticides. Repts. Progr. appl. Chem. (Soc. chem. Ind.), London, 36 (1951). 1952, 684—692.

Massee, A. M., Spray recommendations for 1953. [insect control] Grower 38. 1952, 868—871.

Menon, P. B., Gupta, C. M. S., and **Basu, B. C.,** Tests of some proprietory insecticides. Indian J. Vet. Sci., Anim. Husb., Delhi, 21 (1951). 1952, 215—227.

Metcalf, R. L., Insects V. Insecticides. Sci. Amer. 187. 1952, nr. 4, p. 21—25.

Metcalf, R. L., Why we use insecticides. Mod. Nutrit. (amer. Acad. appl. Nutrit.) 5. 1952, nr. 5, p. 10—15.

Mickle, G. T., Save your garden from insects. Colorado agric. Coll. Ext. Circ. 171-A. 1952, 6 p.

Miller, L. W., The importance of insects in food production. [insect pest control] Tasmanian J. Agric. 23. 1952, 221—223.

Morrison, H. E., Control of soil insects. Proc. Oregon State hortic. Soc. 67. 1952, 119—122.

Morrison, H. E., and **Crowell, H. H.,** Soil insecticide in Oregon. J. econ. Ent. 45. 1952, 1002—1010.

Morrison, L., Modern trends in agriculture. II. Entomology. [insect control methods] Rur. Educ. Bull. 7. 1952, 68—74.

Münchberg, P., Nochmals zum Ursachenkomplex der Resistenz der Arthropodenwelt gegen die Kontaktinsektizide. Schädlingsbekämpfung 44. 1952, 125—130.

Nagasawa, S., (Some problems on rearing of test insects for insecticidal tests. 3. The rearing method of house fly by bean curd refuse.) J. Plant Prot., Tokyo, 41. 1952, 393—395.

Narayanan, E. S., New chemical weapons for fighting insect menace. Indian Farming 2 (n. ser.). 1952, nr. 6, p. 14—15.

Neiswander, R. B., Investigations on nursery insects during 1951. Ohio agric. Coll. Ext. Nursery Notes 21. 1952, nr. 2, 8 p.

Nelson, R. H., Conversion tables and equivalents. [for diluting and applying insecticides] US Dept. Agric. Yearb. Agric. 1952, 743—746.

Nelson, R. H., Conversion tables and equivalents for use in work relating to insect control. US Bur. Ent., Plant Quar., Washington, E-517 (rev.). 1952, 21 p.

Newcomer, E. J., Westlake, W. E., and **Landis, B. J.,** Using insecticides effectively. US Dept. Agric. Yearb. Agric. 1952, 245—249, 1 fig.

Nikiforow, A., i **Fratkin, A.,** (Controlling pests of agricultural crops.) Kolkhoz. Proizvodstvo (Collect. Farm Prod.) 12. 1952, nr. 5, p. 32—33.

Niven, L. A., Uninvited guests of garden and orchard. [insect control] Progr. Farmer (Kentucky-Tennessee-West Virginia Ed.) 67. 1952, nr. 4, p. 68.

Orr, R. T., Insect control at the canning plant. Canning Trade, Baltimore, 74. 1952, nr. 38. p. 9—10, 31.

Orr, R. T., Selling insecticides to food plants. [dissemination of advice on insect control] Soap, sanit. Chem. 28. 1952, nr. 10, p. 147—148.

Orr, R. T., Start planning for better insect control in your plant this season. Canner, Chicago, 114. 1952, nr. 15, p. 14, 16, 18, 24.

Osmun, J. V., Appraisal of residual insecticide activity following thermal aerosol application. Proc. indian Acad. Sci. 61. 1952, 152—158.

Osmun, J. V., Trends in modern insecticide practices for the control of clothes moths and carpet beetles in the home. Proc. amer. Assoc. econ. Entomologists, North Centr. States Br., 7. 1952, 68—69.

Painter, R. H., Dahms, R. G., and **Noble, W. B.,** Research on control of other insects affecting small grain. [Phytophaga destructor, Toxoptera graminum, Cephus cinctus] Proc. amer. Assoc. econ. Entomologists, North Centr. States Br., 7. 1952, 56—58.

Palmer, E., Insecticides: a weapon for good or bad. Veldtrust 13. 1952, nr. 3, p. 10—11, 27, 32.

Peacocke, N. E., Control of plant pests in the Caribbean area. Mon. Bull. Carribbean Comn., Trinidad, 6. 1952, 55—56.

Pearce, G. W., and **Chapman, P. J.,** Insecticidal efficiency of petroleum fractions and synthetic isoparaffins. Advances Chem. Ser. 7. 1952. 12—24.

Popham, W. L., Insects in relation to southern agriculture. [control] Comm. Fertil., Atlanta, 85. 1952, nr. 2, p. 32, 34, 36, 46.

Porter, B. A., Insects are harder to kill. [resistance] US Dept. Agric. Yearb. Agric. 1952, 317—320.

Potter, C., Modern insecticides and methods of application for plant protection. J. R. agric. Soc., London, 109. 1948, 175—193.

Pradhan, S., Chemical warfare ageinst insect enemies of crops. Indian Farming 2. 1952, 14—15.

Pradhan, S., Nair, M. R. G. K., and **Krishnaswami, S.,** Lipoid solubility as a factor in the toxicity of contact insecticides. Nature, London, 170. 1952, 619—620, 1 fig.

Pratolongo, U., Insetticidi endoterapici o sistemici. Ricerca sci., Roma, 22. 1952, nr. 7, p. 1348—1354.

Pratt jr., J. J., and **Babers, F. H.,** How insecticides poison insects. US Dept. Agric. Yearb. Agric. 1952, 205—209, 1 fig.

Price, W. A., and **Rodriguez, J. G.,** How to control common garden insects. Kentucky agric. Coll. Ext. Circ. nr. 479. 1952, 11 p.

Principi, M., (Chemical treatments to control insects.) Inform. Fitopat., Bologna, 2. 1952, 44—46.

Prey, V., Beran, F., und **Böhm, H.,** Untersuchungen über die insektizide Wirkung organischer Verbindungen. Mitt. chem. Forsch.inst. Ind. Österr. 5. 1951, 3, 43—49; 6. 1951, 110—116.

Purswell, H. D., Fall and winter insects and their control. Dixie co-op. News 3. 1952, nr. 3, p. 6.

Pyenson, L., Control program for insect pests. [sprays] Garden J. 2. 1952, 56—57.

Pyenson, L., Pin-pointing the June pests. Home Garden 19. 1952, nr. 6, p. 32—35.

Ramachandran, S., Manuring in relation to insect pests. Madras agric. J. 29. 1952, 91—95.

Ramsey, J. D., PC & F helps build Hawaii with fertilizer and insecticides. Comm. Fertil., Atlanta, 84. 1952, nr. 6, p. 56—58.

Reed, J. K., Insecticides in the soil as determined by bio-assay. Proc. Assoc. south. agric. Workers 49. 1952, 87.

Reichmuth, W., Über Faktoren der Insektiziden Potenz. Trans. IXth int. Congr. Ent., Amsterdam, 1 (1951). 1952, 1005—1013, 8 fig.

Reyes, M. A., El uso y aplicación de los insecticidas. Rev. agríc. (Guatemala) (ser. 3) 1 (1950). 1952, nr. 5/7, p. 7—9.

Richmond, G. L. G., Systemic insecticide. Essex Farmers' J. 31. 1952, nr. 2, p. 15—16.

Ripper, W. E., Systemic insecticides. III^{e} Congr. int. Phytopharm., Paris, 1. 1952, 171—190.

Roark, R. C., How insecticides are developed. US Dept. Agric. Yearb. Agric. 1952, 200—202.

Roberts, R. M., Insecticide makers have public responsibility. Cotton Gin, Oil Mill Press, Dallas (Texas), 53. 1952, nr. 8, p. 22.

Rodale, J. I., (The insecticide markers are going too far. Organic Farmer 3. 1952, nr. 12, p. 20—21, 46—49.

Rodriguez Sardiña, J., El método de la niebla de vapores activos (un nuevo procedimiento de emplear insecticidas). Agricultura, Madrid, 21. 1952, 621.

Rohwer, S. A., Insecticides in agriculture. Advances Chem. Ser. 1. 1950, 9—12.

Romeo, V. S., Insecticidas. Col. farmac. (Chile) 9. 1952, nr. 115/116., p. 8—15.

Rupp, J., Kampf der Schädlingswelt. [Insektenkontrolle] Allgäuer Bauernbl. 20. 1952, 386—387.

Russel, E. J., Wastage of world food supplies through diseases and pests. [chemical control of insects and systemic insecticides] Shropshire, surrounding Counties agric. News 17. 1952, 3, 5.

Ryker, T. C., Se está estudiando detenidamente el empleo de insecticidas en el tratamiento de semillas. Campo, Tacuba, 20 (ser. 2). 1952, nr. 721, p. 57—58.

Salisbury, G., Don't gamble with insects. [recommended practices and insecticides] Capper's Farmer (Kansas) 63. 1952, nr. 4, p. 29, 48.

Schmidt, G., Über Engerlings- und Drahtwurmbekämpfung mit neuzeitlichen Mitteln. Nachr.bl. dtsch. Pfl.schutzd., Braunschweig, 2. 1950, 45—46.

Schread, J. C., Insect control in landscape plantings. Amer. Nurseryman, Rochester, 95. 1952, nr. 11, p. 10, 46—50.

Schulz, P., Pests and what to do about them. Gloxinian 1. 1952, nr. 6, p. 2—3.

Searls, E. M., The industrial entomologist. US Dept. Agric. Yearb. Agric. 1952, 455—457.

Sen, A. C., Selection of insecticides. [the insecticides for various uses] Bihar agric. Coll. Mag. (India) 3. 1952, 4—8.

Servi, G., (Systemic insecticides.) Agric. tosc., Firenze, 7. 1952, 352—353.

Shenefelt, R. D., Soil insecticides for nurseries. Proc. amer. Assoc. econ. Entomologists, North Centr. States Br., 7. 1952, 88.

Shewell-Cooper, W. E., Precision spraying. [insect control] Estate Mag., London, 52. 1952, 158—161.

Simons, H. M., A new weapon for fighting the underground. [organic insecticides for control of soil pests] Farm and Ranch — South. Agriculturist, (Upper South Ed.) 82. 1952, nr. 4, p. 11.

Sinreich, A., Über die Wirkung neuzeitlicher Insektizide auf die Gliedertiere bei Forstschädlingsbekämpfungen. Mitt. forstl. Bundes-Vers.anst. Mariabrunn H. 48. 1952, 153—165, 3 Abb.

Skerrett, E. J., and **Woodcock, D.,** Insecticidal activity and chemical constitution. Part V. Synthesis of some di-p-chlorophenylalkanes. J. chem. Soc., London, 1952, 3308—3312.

Smit, B., The application of insecticides in South Africa. South afr. ind. Chem., Johannesburg, 6. 1952, 127—128.

Smit, B., Control of insect pests. Farming South Afr. 27. 1952, 164—166.

Smith, F. F., Conversion of per-acre dosages of soil insecticide to equivalents for small units. J. econ. Ent. 45. 1952, 339—340.

Soulie, J., Les insecticides systémiques. Ann. Soc. Hortic. Haute-Garonne (ser. 5) 24. 1952, 328—333.

Spear, P. J., Insecticide vaporizers. Soap, sanit. Chem. 28. 1952, nr. 8, p. 147—148, 173.

Stanley, W. W., Value of early season insect control shown. Cotton Trade J. (int. ed.) 32. 1952, 16.

Stapel, C., (Advantages, disadvantages and hazards of the new insecticides.) Tidsskr. Landøkon., København, 4. 1952, 165—186.

Starnes, O., Some new insecticides. East. Feed Merchant 3. 1952, 70—71.

Starnes, O., and **Filmer, R. S.,** Forage crop insect control. New Jersey agric. Coll. Ext. Leafl. nr. 73. 1952, 8 p.

Starr, D. F., Report of the CSMA Insecticide Scientific Commitee; a brief history of twenty years experience in standardizing insecticides. Proc. chem. Specialt. Manufact. Assoc. 39. 1952, 114—115.

Stimson, jr., T. E., It's news: plant pites bug. [systemic insecticides] Pop. Mech. (Mag.), Chicago, 98. 1952, nr. 3, p. 65—69, 238.

Sullivan, W. N., Fulton, R. A., and **Yeomans, A. H.,** Aerosols and insects. US Dept. Agric. Yearb. Agric. 1952, 240—244.

Swan, D. C., The world wages war on insects. Queensland Fruit, Veg. News 2. 1952, nr. 33, p. 11—12.

Sweetman, H. L., and **Spear, P. J.,** Vaporization o insecticides. Trans. IXth int. Congr. Ent., Amsterdam, 1 (1951). 1952, 1030—1036, 3 fig.

Tanaka, K., Byogaichu bojo no jissai. (Reality of protection from disease and damage of insect for agricultural products.) Chikuyo Shobo, Tokyo, 1952. 138 p.

Ten Houten, J. G., (Insecticides and control technique.) Meded. Dir. Tuinbouw, 's-Gravenhage, 15. 1952, 37—39

Thames jr., W. H., The use of insecticides for control of soil borne insects. Proc. Florida State hortic. Soc. 64 (1951). 1952, 115—117.

Tunblad, B., (New insecticides.) Fruktodlaren (sver. pomol. Fören.), Stockholm, 1. 1952, 13—14.

Usman, S., and **Raju, R. N.,** Some local practices prevalent in the Mysore State in the control of insect pests. Mysore agric. J., Bangalore, 28. 1952, 73—76.

Van Rossem, G., Provision insects. Meded. Dir. Tuinbouw, 's-Gravenhage, 15. 1952, 35—36.

Van Thiel, P. H., The repellent effect of insecticides, especially of contact insecticides. Acta leidensia 22. 1952, 96—107.

Verona, O., e **Picci, G.,** Intorno all'azione esercitat dagli insetticidi sistemici sulla microflora del terreno. Agric. ital. 52., Pisa, (n. ser. 7) 1952, 61—70.

Waites, R. E., A laboratory method for evaluating insect repellent chemicals. Ohio State Univ., Abstr. Diss. 62. 1952, 269—273.

Wasserburger, H.-J., Daphnia magna als Testtier zum Nachweis von Kontaktinsektizid-Spuren. Pharmazie 7. 1952, 731—734, 4 Abb.

Widmer, W. E., Systemic insecticides. MEGA Bull. (Men's Garden Clubs Amer.) 12. 1952, nr. 5, p. 10—11, 19.

Wilson, J. W., Preliminary investigations of systemic insecticides. Proc. Florida State hortic. Soc. 64 (1951). 1952, 117—119.

Winteringham, F. P. W., Zur Biochemie von Insektengiften. Endeavour, London, 1952, nr. 41, p. 22—28, 2 fig.

Yamasaki, T., and **Ishii, T.,** (Studies on the mechanism of action of insecticides. IV. The effects of insecticides on the nerve conduction of insect.) Oyokontyu (Nippon Soc. appl. Ent.), Tokyo, 7. 1952, 157—164.

Yeomans, A. H., Influence of particle size on application of insecticide sprays. Advances Chem. Ser. 7. 1952, 56—59.

Zimmermann, Bekämpfung schädlicher Insekten im Boden. Zentralbl. dtsch. Erwerbsgartenbau 4. 1952, Nr. 1, S. 3.

Control program for insects and other pests of truck corps. Washington State Coll. Ext. Mimeogr. 635 (rev.) 1952, 8 p.

Expert Committee on Insecticides. Fourth report. World Health Org., Geneva, Techn. Rept. ser. nr. 54. 1952, 98 p., 12 fig.

Insecticides, aerosol, low pressure (12-ounce dispencer). US Gen. Serv. Admin. Interim Fed. Specific. O-I-00508 (GSA-FSS). 14. 8. 1952.

Insecticides, liquid, space spray. US Gen. Serv. Admin. Interim Fed. Specific. O-I-551 (GSA-FSS). 1. 4. 1952.

Insecticides. US Dept. Agric. Yearb. Agric. 1952, 748—750.

List of names and symbols of insecticides for use in the Journal of economic Entomology. US Bur. Ent., Plant Quar., Washington, 1952, 5 p.

Pflanzen- und Vorratsschutz in den Vereinigten Staaten. [Insektizide] Schädlingsbekämpfung 44. 1952, 196.

Systemische Insektenmittel ein Fortschritt im Pflanzenschutz. Kleingärtner u. Siedler 6. 1952, 119, 1 Abb.

Die Wirkungsweise von Insektengiften. Umschau 52. 1952, 718, 2 Abb.

Rodentizide im allgemeinen
Rodenticides in general
Rodenticides en général

(Siehe auch — see also — voyez aussi p. 75.)

Andrew, J., Topdressing hill-country: aerial sowing of rabbit poison. Sheepfarming Ann. (Massey agric. Coll.) 4. 1952, 53—56.

Becker, A., Feldmausbekämpfung 1952. Landw. Ztschr. Nord-Rheinprov. 119. 1952, 875.

Becker, K., Untersuchungen zur Bestimmung der Gebrauchsdosis von Rattengiften. Schädlingsbekämpfung 44. 1952, 98—104, 5 Abb.

Bruce, J. V., and Knowlton, G. F., Controlling house mice. Utah State agric. Coll. Ext. Circ. 160. 1952, 2 p.

Caldwell jr., A. H., Dermal treatment of rats with toxicants. J. econ. Ent. 45. 1952, 1098.

Dukeljskaja, N. M., and Wasilewskij, A. P., (Control of mouse-like rodents on terrytory of Main Botanical Garden.) Bull. Glav. Bot. Sad., Moskwa, 12. 1952, 87—91.

Falkenschtejn, B., (New methods for controlling rodents.) [in nurseries, orchards and shelterbelts] Kolkhoz. Proizvodstvo (Collect. Farm Prod.) 12. 1952, nr. 12, p. 57—58.

Fischer, Gemeinsame Feldmausbekämpfung. Bauernbl. Schlesw.-Holst. 6./102. 1952, 1286.

Fitzwater jr., W. D., 10 ways to check rodent damage. Amer. Fruit Grower, Cleveland (Ohio), 72. 1952, nr. 10, p. 12, 22.

Frank, F., Über eine vorbeugende Feldmausbekämpfung und Erfahrungen mit verschiedenen Giftgetreidesorten. Nachr.bl. dtsch. Pfl.schutzd., Braunschweig, 4. 1952, 85—90.

Fricker, A., Die Frühjahrsbekämpfung der Feldmäuse, eine dringende pflanzenschutzliche Maßnahme. Württ. Wochenbl. Landw. 119. 1952, 115.

Fricker, A., Rattenbekämpfung tut not! Württ. Wochenbl. Landw. 119. 1952, 5.

Gaudchau, M. D., Die Giftmittel zur Rattenbekämpfung. Württ. Wochenbl. Landw. 119. 1952, 1083.

Gaudchau, M. D., Die Maßnahmen zur Bekämpfung der Hausratte (Blaue Dachratte). Württ. Wochenbl. Landw. 119. 1952, 1060—1061.

Gaudchau, M. D., Die vorbereitenden Maßnahmen zur Bekämpfung der Wanderratte. Württ. Wochenbl. Landw. 119. 1952, 1038.

Giban, J., Sur les moyens de lutte à employer contre le rat musqué. Phytoma, Paris, 5. 1952, nr. 39, p. 18.

Girard et Chavanne, Lutte contre les rongeurs. Emploi de produits nouveaux. Rev. Corps Santé milit., Paris, 8. 1952, 180—211.

Grand, E. F., 1952 rodent control report. Montana Wool Grower 26. 1952, nr. 9, p. 41—42.

Heinze, G., Die Bekämpfung der Feldmäuse. Pfl.schutzamt Sachsen-Anhalt, Merkbl. Nr. 52. 1952, 3. Aufl., 4 S., 1 Abb.

Hughes, A. E., Control of rabbits. Tasmanian J. Agric. 23. 1952, 181—182.

Jancke, W., Kritische Bemerkungen zur amtlichen Rattenbekämpfung im Regierungsbezirk Osnabrück. Schädlingsbekämpfung 44. 1952, 190—192.

Lal, K. B., The control of field rats. Agric., Anim. Husb. India 3. 1952, 47—49.

Marcus, Feldmäuse jetzt bekämpfen! Landw. Wochenbl. Kurhessen, Waldeck 167. 1952, 1234.

Misaka, K., (Present studies on rodent control.) J. Plant Prot., Tokyo, 37/38. 1952, 305—307.

Ophof, A. J., en De Winkel, M., Bestrijding van ratten en muizen. Tuinbouwgids, Den Haag, 1952, 262—264.

Reiff, M., Antikoagulantien als Rodentizide. Chem. Rundschau 5. 1952, Nr. 1.

Schaerffenberg, B., Zur Frage der biochemischen Rattenbekämpfung. Anz. Schädl.kunde 25. 1952, 46—47.

Schenk, P. J., (Control of rats and mice.) Groenten en Fruit 8. 1952, 126.

Schober, K., Neue Wege der Rattenbekämpfung. Obst- u. Gartenbau, Stuttgart, 7. 1952, 139—140.

Stolze, K. V., und Lange, B., Feldmäuse-Beispielsbekämpfung und Versuche zur Verhinderung von Mäuseplagen. Schädlingsbekämpfung 44. 1952, 53—61, 8 Abb.

Storer, T. I., Controlling rats and mice. Calif. agric. Exp. Stat. Circ. 410. 1952?, 36 p., 17 fig.

Wüstmann, J., Kampf den Ratten! Landw. Wochenbl. München 142. 1952, 590, 814.

Bekämpfung der Wühlmaus. Obst- u. Gartenbau, Stuttgart, 7. 1952, 25—26.

Gegen die Feldmausplage vorbeugen! Bad. landw. Wochenbl. 119. 1952, 140, 5 Abb.

Neue erfolgreiche Methoden für die Rattenbekämpfung. Hannov. land-, forstw. Ztg. 105. 1952, 254.

Neuer Weg zur Rattenbekämpfung. Obst- u. Gartenbau, Stuttgart, 7. 1952, 185.

Pflanzenschutzmittel-Verzeichnis (Auszug). Verzeichnis amtlich geprüfter und anerkannter **Rattenbekämpfungsmittel.** Biol. Bundesanst. Braunschweig, Merkbl. Nr. 3 (4. Aufl.). 1952, 4 S.

Rattenbekämpfung tut not! Landw. Ztschr. Nord-Rheinprov. 119. 1952, 651.

Rattenkrieg endlich vor dem Abschluß. Neue Bekämpfungsmethoden sichern Ausrottung des alten Feindes. Landw. Ztschr. Nord-Rheinprov. 119. 1952, 1367.

Rattenkrieg vor dem Abschluß. Landw. Wochenbl. Kurhessen, Waldeck 167. 1952, 1335.

Schaffhausen schützt sich vor Mäuseschäden. Saarl. Bauernbl. 3. 1949, 245.

Tod den Ratten und Mäusen. Obst- u. Gartenbau, Stuttgart, 7. 1952, 61—62.

Kupferverbindungen
Copper derivatives — Dérivés du cuivre

Crandall, B. S., y **Patiño, B.,** Caldo bordelés. Cent. Nac. Agron. Circ. Agric. 53. 1952, 4 p.

Garcés O., C., Un reportaje al caldo bordelés. Soc. Antioqueña Agric. Bull. Agric. 385. 1952, 3415—3418.

Hartmann, H.-P., Vereinfachtes Verfahren zur Zubereitung von Kupfersulfatkabrühe. Gesunde Pflanzen 4. 1952, 148—149.

Hyams, E., Booster feeding — in practice. [Phytophthora infestans] Fruit Grower, London, 1952, 943—944.

Neuhaus, K., Methoden zur Bestimmung des Kupfergehaltes in Kupferkalkspritzbelägen auf Pflanzen. Nachr.bl. dtsch. Pfl.schutzd., Braunschweig, 4. 1952, 124—125.

Vesterman, A., Oxydes cuivreux. Phytoma, Paris, 5. 1952, nr. 35, p. 20—22.

Wain, R. L., The mode of action of copper fungicides. New Biol., London/New York, 12. 1952, 48—57.

Répartition au sulfate de cuivre et des soufres bruts et travaillés. Phytoma, Paris, 5. 1952, nr. 34, p. 26—27.

Quecksilberverbindungen
Mercury derivatives — Dérivés du mercure

Culver jr., A. J., Inactivation of phenyl mercury triethanol ammonium lactate by colloidal clays in vitro. Phytopathology 42. 1952, 513 (Abstr.).

Ishizaki, H., and **Kataoka, K.,** (Fungicidal action of mercuric vapour.) J. Plant Prot., Tokyo, 39/40. 1952, 348—349.

Rao, N. V. S., Some organo-mercury compounds of amides and imides as fungicides. J. sci., ind. Res., Delhi, 11 B. 1952, 8—9.

Arsenverbindungen — Arsenic derivatives
Dérivés de l'arsenic

Bégué, H., Les insecticides arsenicaux en agriculture. Dépêche commerc., agric. (France) 10, 1. 1952, 3—4.

Platone, E., Perfeccionamiento des procedimiento quimico para la fabricación industrial del verde de Schweinfurt (aceto-arsenito de cobre) para fines insecticidas. Rev. bras. Quim. (Cien. e Ind.), São Paulo, 33. 1952, 291.

Riedeburg, Th., Compound A 42 — Arsenomethane As-1,2-Di-sulfide, a new organic arsenical insecticide. Agric. Chem., Baltimore, 7. 1952, nr. 4, p. 52—53, 131—133.

Terman, G. L., Plummer jr., B. E., and **Folsom, D.,** Some effects of arsenical vine killers on potatoes and oats. Maine agric. Exp. Stat. Bull. 501. 1952, 11 p.

Schwefelverbindungen
Sulfur derivatives — Dérivés du soufre

Allen, R. M., Ferbam controls nursery weeds. US Forest Serv. Tree Planters' Notes 12. 1952, 8.

Böhm, H., Nochmals — die Schwefelkalkbrühe! Pflanzenarzt, Wien, 5. 1952, Nr. 1, S. 3—4.

Cassidy, H. P., Effects of sulfur dusts. Citrus Leaves 32. 1952, nr. 4, p. 20.

Charrin, V., Précisions sur les soufres noirs. Progr. agric., vitic. 138. 1952, 289—291.

Dimond, A. E., and **Davis, D.,** 2-Carboxymethylmercaptobenzothiazole salts as chemotherapeutants for plant diseases. Phytopathology 42. 1952, 7 (Abstr.).

Feichtmeir, E. F., Amorphous vs. crystalline forms of DDT, benzene hexachloride, and sulfur. Phytopathology 42. 1952, 200—202, 2 fig.

Fukunaga, K., (On some dithiocarbamate fungicides.) J. Plant Prot., Tokyo, 34. 1952, 104—109.

Gros, R., Les soufres noirs. Progr. agric., vitic. 138. 1952, 291.

Izuka, K., (Effect of dithane (Z-78) to some crop diseases.) J. Plant Prot., Tokyo, 42. 1952, 455—457.

Kaars Sijpesteijn, A., and **Van der Kerk, G. J. M.,** Investigations on organic fungicides. VI. Histidine as an antagonist of tetra-methylthiuram disulphide (TMTD) and related compounds. Antonie van Leeuwenhoek, J. Microbiol., Serol., 18. 1952, 83—106, 3 fig., 4 tab.

Krister, C. J., Residues of dithiocarbamate fungicides on food crops. Agric. Chem., Baltimore, 7. 1952, 45—48.

Lopatecki, L. E., and **Newton, W.,** The chelates and their metal combinations as fungicides. Proc. canad. phytopath. Soc. nr. 19. 1952, 17 (Abstr.).

Lopatecki, L. E., and **Newton, W.,** The decomposition of dithiocarbamate fungicides, with special reference to the volatile products. Canad. J. Bot. 30. 1952, 131—138.

McCallan, S. E. A., Miller, L. P., and **Weed, R. M.,** Fungitoxicity of compounds possibly concerned in the mode of action of sulfur and ferbam. Phytopathology 42. 1952, 14 (Abstr.).

Miège, E., À propos du dithane. Inform. maroc. 594. 1952, 1, 4.

Palmer, H. C., Greenlee, R. W., and **Baldwin, M. M.,** Fungicidal action of sodium dialkyldithiocarbamates. Phytopathology 42. 1952, 472.

Patterson, J. D., Report on dithiocarbamates. J. Assoc. off. agric. Chemists, Washington, 35. 1952, 388—391.

Pozzi-Escot, M. E., Investigaciones sobre las propiedades anticriptogámicas del azufre. Rev. bras. Qim. (Cien. e Ind.), São Paulo, 33. 1952, 288.

Teel jr., G. P., Ready for formulation as a dust concentrate is du Pont's potent EPN. Farm Chem. 115, 1952, nr. 8, p. 13, 15—16, 54.

Thiollière, J., L'éthylène bis dithiocarbamate de zinc ou Zineb, nouveau fongicide de synthèse. Pomol. franç., Lyon, 79. 1952, 73—76.

Tocaven, S., Recherches sur l'activité insecticide du toluène 3—4 dithiophénol. Compt. rend. Acad. Sci., Paris, 234. 1952, 1581—1583.

Togliani, F., (Carbon disulfide for the control of root rot.) Inform. Fitopat., Bologna, 2. 1952, 115—116.

Van Raalte, M. H., Het effect van metaal-ionen op de fungistatische werking van natrium dimethyl dithiocarbamaat. Meded. Landbouwhoogesch., Opzoek stat. Gent 17. 1952, nr. 1; p. 163—173.

Vespignani, A., Preparazione ed use della poltiglia solfocalcica. Inform. Fitopat., Bologna, Pubbl. quindic. (Gr. II), 2. 1952, 5—8, 1 fig.

Weed, R. M., McCallan, S. E. A., and **Miller, L. P.,** Breakdown of various organic sulfur fungicides to yield carbon disulfide and its significance in their toxic action. Phytopathology 42. 1952, 477.

Wenzl, H., Beitrag zur Normung von Schwefelpräparaten auf Grund von Schorfversuchen. Pflanzenschutzberichte, Wien, 9. 1952, 65—79, 3 Abb.

Phosphorverbindungen
Phosphorus derivatives
Dérivés du phosphore

Augustinsson, K.-B., (Organische Phosphorverbindungen als Insektenmittel, Nervengase und Enzymhemmstoffe.) Svensk kem. Tidskr. 64. 1952, 87—113.

Bellack, E., and **Dewitt, J. B.,** Procedure for the analysis of zinc phosphide rodenticides. J. Assoc. off. agric. Chemists, Washington, 35. 1952, 917—920.

Bennett, S. H., and **Thomas, W. D. E.,** Experiments on the absorption and fate of a systemic insecticide bis (bis dimethylamino phosphonous) anhydride $[(CH_3)_2N]_2\ PO—O—PO\ [(CH_3)_2N]_2$ in plants. Trans. IXth int. Congr. Ent., Amsterdam, 1 (1951). 1952, 981—986.

Blinn, R. C., Gunther, F. A., and **Kolbezen, M. J.,** Identification and properties of the colored compound formed in parathion estimations. J. amer. chem. Soc. (Pennsylv.) 74. 1952, 5516—5518.

Bongiovanni, G. C., (The phosphoric esters.) [insecticides] Inform. Fitopat., Bologna, 2. 1952, 137—142.

Bosse, G. H. C., Versuche mit Systox im Gartenbau. Gartenwelt 52. 1952, 57—58, 94—96, 6 Abb.

Bottger, G. T., and **Yerington, A. P.,** Comparative insecticidal value of EPN, methyl parathion, methyl parathion, and parathion. J. econ. Ent. 45. 1952, 131.

Carson, H. C., Isopestox. Farm Chem. 115. 1952, 22—23.

Casida, J. E., The role of plants in the production of systemic insecticides. [Octamethyl pyrophosphoramide] Comm. Fertil., Atlanta, 85. 1952, nr. 2, p. 48.

Casida, J. E., Allen, T. C., and **Stahmann, M. A.,** Reaction of certain octamethylpyrophosphoramide derivatives with chymotrypsin. J. amer. chem. Soc. (Pennsylv.) 74. 1952, 5548.

Dosse, G., Die Wirkung von E 605 forte auf Läuse bei verschiedenen Temperaturen. Anz. Schädl.kunde 25. 1952, 7—10.

Dubois, K. P., and **Coon, J. M.,** Toxicology of organic phosphorus-containing insectides to mammals. Arch. ind. Hyg., occup. Med., Baltimore, 6. 1952, 9—13.

Edwards, F. I., Report on parathion. J. Assoc. off. agric. Chemists, Washington, 35. 1952, 381—386.

Fahey, J. E., Hamilton, D. W., and **Rings, R. W.,** Longevity of parathion and related insecticides in spray residues. J. econ. Ent. 45. 1952, 700—703, 3 fig.

Feder, W. A., Observations on the nematocidal action of some organophosphorus insecticides. Phytopathology 42. 1952, 466.

Frawley, J. R., Laug, E. T., and **Fitzhugh, O. G.,** The in vivo inhibition of fly cholinesterase as a measure of microgram quantities of organic phosphate insecticides. J. Assoc. off. agric. Chemists, Washington, 35. 1952, 745—748.

Friend, A. H., »Preparation 8169« — promising new systemic insecticide. [systox] Agric. Gaz. New South Wales 63. 1952, 89.

Gage, J. C., The determination of p-nitrophenyl and p-nitrophenyl-O-S-diethyl thiophosphate. Analyst, London, 77. 1952, 123—126.

Gaprindaschwili, N. K., and **Nowizkaja, T. N.,** (In regard to studying the action of organic phosphate insecticides on Entomophaga of pests of subtropical crops in Georgian SSR.) Dokl. Vsesoiuzn. Akad. Selskokhoz. Nauk im. V. I. Lenina (Proc. Lenin Acad. agric. Sci.) 17. 1952, nr. 12, p. 11—15.

Gardiner, J. E., and **Kilby, B. A.,** Biochemistry of organic phosphorus insecticides. I. The mammalian metabolism of bis (dimethylamino) phosphonous anhydride (Schradan). Biochem. J., Cambridge, 51. 1952, 78—85.

Génin, G., Nouveaux insecticides et parasiticides à base de composés organiques du fluor ou du phosphore. II, III. Indus. chim., Paris, 39. 1952, nr. 414, p. 1—5; nr. 415, p. 33—40.

Heath, D. F., Lane, D. W. J., and **Llewellyn, M.,** Studies on commercial octamethylpyrophosphoramide. III. Decomposition of the insecticide in plants, using ^{32}P as a tracer. IV. The decomposition of pyrophosphoric acid tetra (dimethylamide) and orthophosphoric acid tri (dimethylamide) in the living plant. J. Sci. Food, Agric., London, 3. 1952, 60—73, 2 fig.

Hoffmann-Credner, D., and **Siedek, H.,** Distribution and fate of Schradan (bisdimethyl-aminophosphonous anhydride) in mammals using a radioactive compound. Arch. int. Pharmacod., Thérapie 89. 1952, nr. 1.

Ishikura, H., and **Ishii, S.,** (Review of chemical and insecticidal properties of parathion.) J. Plant Prot., Tokyo, 33. 1952, 105—107.

Jensen, J. A., Durham, W. F., and **Pearce, G. W.,** Studies on fate of parathion in rabbits, using radioactive isotope techniques. Arch. ind. Hyg., occup. Med., Baltimore, 6. 1952, 326—331.

Johnson, G. A., Fletcher, J. H., Nolan, K. G., and **Cassaday, J. T.,** Decreased toxicity and cholinesterase inhibition in a new series of dithiophosphates. J. econ. Ent. 45. 1952, 279—283.

Laue, G., Der Phosphorwasserstoff PH_3 unter besonderer Berücksichtigung seiner Anwendung in der Schädlingsbekämpfung. Schädlingsbekämpfung 44. 1952, 186—190.

Lhoste, J., et **Leibovici, Ch.,** Nouvelles utilisations de l'octaméthylpyrophosphoramide. Phytoma, Paris, 5. 1952, nr. 35, p. 17—19, 3 fig.

Linskens, H. F., Über den Einfluß von E 605 auf den Quellungsverlauf. Höfchen-Briefe, Leverkusen, 5. 1952, 33—35, 1 Abb.

Louis, R., Über die Wirksamkeit und Wirkungsbedingungen systematischer Insektizide am Beispiel des Phosphorsäureesters eines Alkylmercaptoäthylalkohols (Systox) unter Berücksichtigung des artspezifischen Verhaltens von Wirtspflanze und Parasit. Diss. Landw. Hochsch. Hohenheim 1952. 83 S., 3 Abb.

Lüdicke, M., Über das Verhalten von radioaktivem 0,0-Diäthyl-0,p-nitrophenyl-monothiophosphat auf der Pflanze. Ztschr.Pfl.krankh. 59. 1952, 451—459, 8 Abb.

Myers, D. K., Mendel, B., Gersmann, H. R., and **Ketelaar, J. A. A.,** Oxidation of tiophosphate insecticides in the rat. Nature, London, 170, 1952, 805—807.

Pfaff, W., Untersuchungen über den Aufbau der Insektenkutikula und den Eindringungsmechanismus des Kontaktinsektizides E 605. Höfchen-Briefe, Leverkusen, 5. 1952, 93—160, 14 Abb., 24 Taf. — Diss. Bonn 1952. 72 S., 14 Abb., 24 Taf.

Schönamsgruber, M., Die potentiometrische Bestimmung von 0,0' - Diäthyl - 0 - p - Nitrophenylthiophosphat (E 605) bzw. des homologen Dimethylesters, des 0,0' - Dimethyl - 0 - p - Nitrophenylthiophosphats in üblichen Handelspräparaten. Ztschr. analyt. Chemie 135. 1952, 23—36, 3 Abb.

Schönamsgruber, M., Über eine schnelle Bestimmungsmethode von E 605 bzw. seines Dimethylhomologen in üblichen Handelspräparaten, auf potentiometrischer Grundlage. Höfchen-Briefe, Leverkusen, 5. 1952, 221—224, 1 Abb.

Schrader, G., Die Entwicklung neuer Insektizide auf Grundlage organischer Fluor- und Phosphor-Verbindungen. Verlag Chemie, GmbH., Weinheim/Bergstr. 1952. Erw. Aufl., 96 S. (Monogr. »Angew. Chemie« u. »Chemie-Ing.-Techn.« Nr. 62).

Schrader, G., Die Entwicklung systemischer Insektizide auf Grundlage organischer Phosphorverbindungen. Höfchen-Briefe, Leverkusen, 5. 1952, 161—170.

Schrader, G., Zur Kenntnis neuer Insektizide auf Grundlage organischer Phosphorverbindungen. Ztschr. angew. Ent. 33. 1952, 328—340.

Schuppon, R., Les esters phosphoriques (parathion, sulphos, S. N. P., etc.); leur emploi comme insecticides en agriculture. Élevage et Cult. (Algérie) 4. 1952, nr. 44, p. 16—17.

Sharp, S. S., and **Jelinek, A. G.,** Ethyl p-nitrophenyl thionobenzenephosphonate (EPN) chemical characteristics, biological activity, and pesticidal use. Du Pont de Nemours, E. I., & Co., Wilmington, Agric. News Let. 20. 1952, 1—5.

Unterstenhöfer, G., Über das innertherapeutische Insektizid Systox. 4. jaarl. Symp. Phytopharm., Gent, 1952, 75—87.

Vega M., J. A., Insecticidas fosfatados. Mensajero agríc. (Perú) 70. 1952, 28.

Vekemans, J., Quelques applications du parathion aux cultures européennes au Katanga. Trans. IXth int. Congr. Ent., Amsterdam, 1 (1951). 1952, 1052—1058.

Zeumer, H., und **Fischer, W.,** Beitrag zur Analyse von E 605-Präparaten. Ztschr. analyt. Chemie 135. 1952, 401—409.

Gesarol und E 605 in der Gartenapotheke. Landw. Wochenbl., München, 142. 1952, 788, 1 Abb.

»**Hanane**« — a new systemic insectizide. Chem. Age, London, 46. 1952, 407—408.

Législation arrêté du 10 Avril 1952 réglementant le commerce et l'emploi du thiophosphate de diéthyle et de paranitrophényle et de tous esters thiophosphoriques dans les produits antiparasitaires. Phytoma, Paris, 5. 1952, nr. 38, p. 27—28.

Preparation 8169 or Systox — promising new systemic insecticide. Agric. Gaz. New South Wales 63. 1952, 89.

Zyanverbindungen
Cyanides — Cyanures

Brown, W. B., The benzidine acetate-copper acetate test for hydrogen cyanide. Chem. and. Ind. (Rev.), London, 6. 1952, 124—126.

Ferguson, W., and **Jasmin, J. J.,** Weed control studies with calcium cyanamide. Proc. Canada nat. Weed Comtm., East. Sect., 5 (1951). 1952, 49—51.

Müller, H., Über die Wirkung des Cyanamids im Kalkstickstoff auf die verschiedenen Mikroorganismengruppen, insbesondere auf Schadpilze im Boden. Mitt. Biol. Zentralanst. H. 74. 1952, 23—27, 6 Abb.

Nakazato, Y., (Calcium cyanide as a disinfectant.) J. Plant Prot., Tokyo, 37/38. 1952, 313—315.

Pradhan, S., and **Bhatia, S. C.,** Specific susceptibility to HCN and the amount of HCN recovered from fumigated insects. Bull. ent. Res. 42. 1952, 399—418, 9 fig.

Scheffer, F., und **Hardt, H. K.,** Untersuchungen über die Wirkung verschiedener Kalkstickstofformen und des Dizyandiamids auf den Pflanzenertrag. Ztschr. Pfl.ernähr., Düngg., Bodenkunde 56 (101). 1952, 9—21.

Sinclair, A. T., History, development and summary of experimentation with calcium cyanamide. Proc. Canada nat. Weed Comtm., East. Sect., 5 (1951). 1952, 44—48.

Zimmerman, W. E., Test PC (potassium cyanate) wet, dry and with sludge for weed control. Golfdom 26. 1952, nr. 6, p. 62—66.

Halogenverbindungen
Halogen derivatives
Dérivés des halogènes

Alkan, B., ve **Kansu, A.,** Marlate (50% technical methoxychlor) ilâcî ile yapïlan denemeler. (Versuche mit dem Präparat Marlate (50% techn. Methoxychlor).) Tomurcuk, Istanbul, 1952, nr. 9, p. 12—13.

Annau, E., Konst, H., and **Plummer, P. J. G.,** Biochemical and histological changes in the liver of mice following feeding of the insecticide aldrin. Canad. J. med. Sci. 30. 1952, 463—470.

Armstrong, G., Bradbury, F. R., and **Britton, H. G.,** The penetration of the insect cuticle by DDT and related compounds. Ann. appl. Biol. 39. 1952, 548—556, 2 fig.

Back, R. C., The insecticidal activity of the eta isomer of 1, 2, 3, 4, 5, 6-hexachlorocyclohexane. Contrib. Boyce Thompson Inst. 16. 1952, 451—454.

Baker, H., Spider mites, insects, and DDT. US Dept. Agric. Yearb. Agric. 1952, 562—567, 2 fig.

Baracco G., C., El uso del DDT en el control de los insectos. Mensajero agríc. (Perú) 70. 1952, 41—42.

Barlow, F., and **Hadaway, A. B.,** Studies on aqueous suspensions of insecticides. Part II. Quantitative determinations of weights of DDT picked up and retained. Bull. ent. Res. 42. 1952, 769—777, 2 fig.

Bissinger, W. E., Cormany, C. L., and **Dial, W. R.,** A new silica for formulating 75% DDT wettable powders. Agric. Chem., Baltimore, 7. 1952, nr. 8, p. 31—33, 117, 119.

Blackaller V., A., El lindano, insecticida de actualidad. [properties and uses] Tierra, México, 7. 1952, 546—548.

Blobaum, R., DDT still reigns as king of the insecticides. Iowa Agriculturist 50. 1952, nr. 6, p. 7.

Bodenstein, G., Zur Frage des Toxizität von Lindan. Schädlingsbekämpfung 44. 1952, 63—65.

Bot, J., The action of DDT, hexachlorocyclohexane chlordane and toxaphene. Docum. Med. geogr., trop. (Nederland) 4. 1952, 57—70. — Acta leidensia 22. 1952, 8—25.

Breny, R., La défense des cultures VI. Les hydrocarbures chlorś: le D. D. T. VIII. Les hydrocarbures chlorés. Le chlordane, le toxaphéne, l'aldrine, et la dieldrine. Bull. hortic. (Belgique) 7 (n. ser.). 1952, 131—135, 195—200.

Brook, M., Differences in the biological activity of 2, 3, 5, 6-tetrachloronitrobenzene and its isomers. Nature, London, 170. 1952, 1022.

Buscarons, F., and **Mir, P.,** Semimicrodetermination of halogen derivatives. Analyt. chim. acta 7. 1952, 185—190.

Call, F., Apparatus for the determination of low concentrations of methyl bromide and other gases. J. Sci. Food, Agric., London, 3. 1952, 463—470.

Cardwell, I., Aerosol PCPBS [para-chlorphenyl benzene sulphonate) for red spider. Grower 38. 1952, 1142, 1146.

Carlo, C. P., Ashdown, D., and **Heller, V. G.,** The persistence of parathion, toxaphene, and methoxychlor in soil. Oklahoma agric. Exp. Stat. Techn. Bull. nr. T—42. 1952, 11 p.

Chadwick, L. E., The current status of physiological studies on DDT resistance. Amer. J. trop. Med., Baltimore, 1. 1952, 404—411.

Chitwood, B. G., Nematocidal action of halogenated hydrocarbons. Advances Chem. Ser. 7. 1952, 91—99.

Clark, E., Resistance of insects to DDT. Farm Res., (New York State Stat.) 18. 1952, nr. 4, p. 11.

Compton, C. C., and **McCauley, W. E.,** Use of Aldrin and Dieldrin in soil widens scope of pest control. Trans. IXth int. Congr. Ent., Amsterdam, 1 (1951). 1952, 1071.

Coronado Padilla, R., Aldrin y dieldrin, dos nuevos insecticidas orgánicos de grandes perspectivas para la protección de nuestra agricultura. Fitófilo, San Jacinto (México), 6. 1952, 25—48.

Costa, J. J., Margheritis, A. E., y **Lamdan, S.,** Contribución al estudio del clordane 1068, su química y su poder insecticida. IDIA (Inform. Invest. agríc.), Buenos Aires, 5. 1952, nr. 56, p. 2—32.

Crittenden, H. W., Comparison of two nematocides used at the time of planting a winter cover crop. Phytopathology 42. 1952, 6 (Abstr.).

Cronje, J. H., and **Craven, J. G.,** (The manufacture of DDT and BHC.) South afr. ind. Chem., Johannesburg, 6. 1952, 217—219.

Crowell, R. L., Resnick, S. L., and **Fay, R. W.,** Laboratory development of lindane aerosols for in-flight use in aircraft. Proc. Mid-Year Meetg. Chem. Specialt. Manufact. Assoc. Off. 38. 1952, 114—117.

Cuillé, L., L'activité résiduelle rémanente du Lindane. Fruits 7. 1952, 176—177.

Daines, R. H., Leone, I., and **Brennan, E.,** The effect of fluorine on vegetation when applied through the substrate or in the atmosphere as influenced by plant nutrition and environmental factors. Phytopathology 42. 1952, 112 (Abstr.).

Daviaud, R., Étude des méthodes de dosage du DDT. Ann. Épiphyties, Paris, 3. 1952, 511—525, 2 fig.

David, W. A. L., Insecticidal-action studies with bisdimethylamino fluorophosphine oxide containing ^{32}phosphorus. Ann. appl. Biol. 39. 1952, 203—210.

Della Paolera, C., y **Reti, M.,** Lindane. Ind. y Quím., Buenos Aires, 14., 1952, 180—183, 190.

Del Rivero, J. M., Ideas fundamentales sobre los insecticidas fluorados inorgánicos. Bol. Asoc. nac. Ing. Agrón. 3. 1952, nr. 23, p. 3—16.

Del Rivero, J. M., Notas sobre el fluosilicato de sodio y sobre la toxicidad de los insecticidas fluorados. [sodium flusilicate as herbicide, insecticide, defoliator, soil sterilizer, and fungicide, and sodium fluoride as insecticide] Siembra (España) 8. 1952, nr. 3, p. 15—17.

Del Rivero, J. M., Sobre los insecticidas fluorados orgánicos. Bol. Asoc. nac. Ing. Agrón. 3. 1952, nr. 33, p. 7—10.

Deom, J., Les méthodes de dosage de l'isomère gamma de l'hexachlorocyclohexane. Bull. agric. Congo Belge 43. 1952, 123—124.

Dunkler, O., Erfolge der Saatgutpuderung mit Hexamitteln gegen Drahtwürmer und andere Jungpflanzenschädlinge (Fritfliege und Rübenaaskäfer). Mitt. dtsch. Landw.-Ges., Frankfurt/M., 67. 1952, 134—135.

Eichler, W., Nochmals »Fragen der DDT-Laboratoriumstechnik«. Zentralbl. Bakt., I. Abt., 158. 1952, 127—128.

Feichtmeir, E. F., Amorphous vs. crystalline forms of DDT, benzene hexachloride, and sulfur. Phytopathology 42. 1952, 200—202, 2 fig.

Fernando, H. E., The acetylcholine-like substance in insect nervous tissue and its role in the toxicity of chlorinated hydrocarbon insecticides. Illinois Univ. Abstr. Thesis, Urbana 1952. 6 p.

Fischer, W., Insecticide, Pflanzenschutzmittel. [DDT] Ztschr. analyt. Chemie 135. 1952, 145—148.

Fisher, A. L., Keasling, H. H., and **Schueler, F. W.,** Estrogenic action of some DDT analogues. Proc. Soc. exp. Biol., Med., New York, 81. 1952, 439—441.

Fulton, R. A., Gelardo, R. P., and **Sullivan, W. N.,** Relative efficiency of methods of applying lindane in enclosed spaces. J. econ. Ent. 45. 1952, 540—541. — Proc. Mid-Year Meetg. chem. Specialt. Manufact. Assoc. Off. 38. 1952, 106—107.

Gainey, P. L., Affect of aldrin and dieldrin in soil microorganisms. Kansas agric. Exp. Stat. Progr. Rept., Commerc. Proj. nr. 100. 1952, 5 p. (Agric. Bull. (Shell) ADB. 295/Sa 13).

Gammon, E. T., Atmospheric fumigation of various seeds with methyl bromide. Bull. Dept. Agric. Calif. 41. 1952, 27—30.

Garcia Guillinta, M. J., Influencia del »pH« de las materias inertes empleadas en el mezcla con insecticidas clorados. Agronomía, Lima, 17. 1952, nr. 72, p. 87—88.

Gasser, R., Über zwei neue Akarizide aus der Gruppe der Di-(p-chlorphenyl)-karbinole. Experientia, Basel, 8. 1952, 65.

Génin, G., Nouveaux insecticides et parasiticides à base de composés organiques du fluor ou du phosphore. II. III. Ind. chim., Paris, 39. 1952, nr. 414, p. 1—5; nr. 415, p. 33—40.

Gerhart, M. D., Witmer, F. J., and **Tajima, Y. A.,** Microdetermination of aldrin and dieldrin by infrared spectroscopy. Analyt. Chem., Washington, 24. 1952, 851—857.

Ginsburg, J. M., Preliminary studies on the effect of sunlight on decomposition and detoxification of DDT. Proc. Ann. Meetg. New Jersey Mosquito Extermin. Assoc. 39. 1952, 162—167.

Gordon, H. T., Colorimetric microdiffusion determination of chloride; application to chlorinated insecticides. Analyt. Chem., Washington, 24. 1952, 857—862.

Gordon, H. T., Modifikation des Mikrodiffusionsverfahrens von Conway. Analyt. Chem., Washington, 24. 1952, 857.

Goytia, A., Un nuevo producto para exterminar las hormigas. [Dieldrin] Chacra, Buenos Aires, 22. 1952, nr. 259, p. 59.

Greenwood, D. E., Soil insecticides. [Aldrin] Agric. Bull. (Shell) April 1952, 2 p., 3 fig.

Grigorjewa, T. G., (Effect of benzene hexachloride inserted into the soil on the soil fauna.) Dokl. Vseso iuzn. Akad. Sel'skohoz. Nauk im. V. I. Lenina (Proc. Lenin Acad. agric. Sci.) 17. 1952, nr. 12, p. 16—20.

Hallemans, A., (What is Lindane?) Cult. en Handel 18. 1952, 220—221.

Hamada, M., Takano, T., and **Ohno, M.,** (Determination of p.p.-DDT in DDT emulsion) (Studies on the determination of DDT, III.) Botyu Kagaku (Sci. Insect Control) 17. 1952, 27—31.

Harris, T. H., Report on chlordane and toxaphene. J. Assoc. off. agric. Chemists, Washington, 35. 1952, 376—377.

Heming, W. E., The effect of DDT spray applications on alsike seed production in southern Ontario. Ontario ent. Soc. Ann. Rept. 82 (1951). 1952, 85—91.

Henrard, P., Quelques notes concernant l'hexachlorcyclohexane. Ind. chim., Paris, 39. 1952, 139—140.

Hensill, G. S., Lindane. Agric. Chem., Baltimore, 7. 1952, 30—32.

Hepburn, G. A., Dieldrin for the control of ants (Anaplolepis custodiens), mealy bugs (Pseudococcus sp.) and scale insects (Coccus hesperidum) on citrus trees. Agric. Bull. (Shell) ADB 192. 1952, 1 p.

Hopkins, L., Gyrisco, G. G., and **Norton, L. B.,** Effects of sun, wind and rain on DDT dust residues on forage crops. J. econ. Ent. 45. 1952, 629—633, 1 fig.

Hopkins, L., Gyrisco, G. G., and **Norton, L. B.,** Trials with lime in controlling DDT residues on forage at harvest. J. econ. Ent. 45. 1952, 893—894.

Hornstein, I., Report on benzene hexachloride. J. Assoc. off. agric. Chemists, Washington, 35. 1952, 366—368.

Hoskins, W. M., Witt, J. M., and **Erwin, W. R.,** Bioassay of 1, 2, 3, 4, 5, 6-Hexachlorcyclohexane (Lindane). Analyt. Chem., Washington, 24. 1952, 555—560.

Hüter, F., Über einige Nagetiergifte vom Fluoressigsäure-Typ. Anz. Schädl.kunde 25. 1952, 137—140.

Ingle, L., Chronic oral toxicity of chlordan to rats. Arch. ind. Hyg., occup. Med., Baltimore, 6. 1952, 357—367.

Inoue, C., (Fungicidal action of BHC.) J. Plant Prot., Tokyo, 39/40. 1952, 350—351.

Itzerott, H., Hat die Gamma-Isomere des Hexachlorcyclohexans eine Kontaktwirkung? Mitt. Biol. Zentralanst. H. 74. 1952, 98—102.

Jameson, H. R., and **Peacock, F. C.,** The persistence of crude benzene hexachloride in the soil. J. Sci. Food, Agric., London, 3. 1952, 78—82.

Jaunin, R., et **Germano, A.,** Chloration du cyclohexane, un nouvel isomère de l'hexachlorocyclohexane. Helvet. chim. Acta 35. 1952, 392—396.

Jones, L. W., Stability of DDT and its effect on microbial activities of soil. Soil Sci. 73. 1952, 237—241.

Keil, H. L., Horsfall, J. G., and **Rich, S.,** Relation of laboratory ED 50 to field performance of fungicides. Phytopathology 42. 1952, 113 (Abstr.).

Keller, H., Die Bestimmung kleinster Mengen DDT auf enzymanalytischem Wege. Naturwissenschaften 39. 1952, 109.

Klimenko, M. A., (Study of benzene hexachloride and familiarization with its use.) Lesnoe Khoz. (USSR) 5. 1952, nr. 12, p. 72—74.

Kopitke, J. C., and **Langford, J. K. R.,** Weed control with methyl bromide. J. Forestry 50. 1952, 208—211, 3 fig.

Lange, El lindane. Rev. Inst. agríc. catalán San Isidro, Barcelona, 101, 1952, 87—90.

Langenbeck, W., Losse, G., und **Fürst, H.,** Untersuchungen zur Steigerung des Gammexangehaltes im Hexachlorzyklohexan-Rohwirkstoff. Chem. Techn., Berlin, 4. 1952, 247—251.

Leiby, R. W., Fight insects with chlordane. Better Farming Methods 24. 1952, nr. 6, p. 16, 19.

Lietz, G., Zur Kenntnis und Anwendung von Dichlordiphenyltrichlormethylmethan (DDT) in der modernen Insektenbekämpfung. Fettchemie u. Fewa-Werke, Chemnitz [1952]. 28 S., 9 Abb.

Maes, H., Phosphorus as a factor preventing DDT-Dehydrochlorination. Nature, London, 170. 1952, 328.

Magie, R. O., New use for an old chemical. [MC-2 for soil sanitation] Bull. north amer. Gladiolus Counc. 31. 1952, 71, 73, 75.

March, R. B., The resolution and chemical and biological characterization of some constituents of technical chlordane. J. econ. Ent. 45. 1952, 452—456, 3 fig.

Mayer, A., (General observations on the use of lindane base insecticides.) Rev. Soc. rur. brasil., São Paulo, 32. 1952, nr. 373, p. 46—47.

Mayer, A., (Modern methods of pest control adopted in Germany, with particular consideration to lindane products.) Rev. agron., Porto Alegre, 16. 1952, 133—136.

Michiels, A., et **Faillet, P.,** Comparaison de l'action insecticide de contact des émulsions de DDT et de chlordane. Parasitica, Gembloux, 8. 1952, 17—27, 4 fig., 1 tab.

Milone, M., et **Borello, E.,** Influence des impuretés sur l'analyse spectroscopique infra-rouge de l'hexachlorocyclohexane technique. Chim. analyt., Paris, 34. 1952, 189—192.

Misato, A., and **Fukunaga, K.,** (Quantitative analysis of γ-BHC by partition chromatography.) J. Plant Prot., Tokyo, 36. 1952, 249—252.

Mitchell, L. C., Separation and identification of chlorinated organic pesticides by paper chromatography. J. Assoc. off. agric. Chemists, Washington, 35. 1952, 920—927.

Mitchener, A. V., Cutworm control with aldrin, dieldrin and Hyman compound 269 in baits. Ontario ent. Soc. Ann. Rept. 82 (1951). 1952, 14—17.

Murata, M., (On the handling standard order of sodium monofluoro acetate.) J. Plant Prot., Tokyo, 33. 1952, 101—104.

Nakazima, M., Motizuki, Y., Matumura, T., and **Yosida, T.,** (Synthesis of benzene hexachloride by silent discharge.) Botyu Kagaku (Sci. Insect Control) 17. 1952, 6—10.

O'Colla, P., The analysis of chlorinated organic insecticidesby partition chromatography on paper and on cellulose columns. [benzene hexachloride, chlordane, toxaphene, and DDT] J. Sci. Food, Agric., London, 3. 1952, 130—135.

Patel, G. A., ABC of BHC and DDT. Poona agric. Coll. Mag. 43. 1952, 88—98.

Piccardo, G., (Total chlorine in chlordane.) Italia agric., 89. 1952, 232—234.

Povlsen, H. H., Analyseforskrift til bestemmelse af 4-klor-2-metylfenoxyeddikesyre, (4 K—2 M). Tidsskr. Planteavl, København, 55. 1952, 712—722.

Razafimahery, R., Recherche de la présence de l'hexachlorocyclohexane (H.C.H.). Agron. trop., Nogent-sur-Marne, 7. 1952, 601.

Reed, T. W., Heat avaporization of lindane for insect control. Proc. Mid-Year Meetg. Chem. Specialt. Manufact. Assoc. Off. 38. 1952, 108.

Riemschneider, R., Zur Weiterentwicklung der Insektizide der Chlorkohlenwasserstoffklasse. Kontakt-Insektizide auf Halogenkohlenwasserstoffbasis. III. Euclides, Madrid, 12. 1952, 35—41, 91—105.

Riemschneider, R., Claus, R., und **Schneider, H.,** Über die quantitative Bestimmung von 1,1,2,3,4,5,6-Heptachlor-cyclohexanen auf refraktometrischer Grundlage. Anz. Schädl.kunde 25. 1952, 89—90.

Riemschneider, R., und **Schölzel, E.,** Literatur zur HCH- und Dien-Gruppe. Liste III. Ztschr. angew. Ent. 33. 1952, 481—512, 600—649; 34. 1952, 101—144.

Roark, R. C., A digest of information on allethrin. US Bur. Ent., Plant Quar., Washington, E—846. 1952, 58 p.

Satyanarayana, P., The rate of loss of DDT. IV. Madras agric. J. 39. 1952, 471—477.

Savage, R. L., Wilson, R. Q., and **Yocom, J. E.,** Process development of DMC [di-(p-chlorophenyl) methyl carbinol], a new miticide. Chem. Ind. 64. 1949, 392—393.

Schechter, M. S., and **Hornstein, I.,** Colorimetric determination of benzene hexachloride. Analyt. Chem., Washington, 24. 1952, 544—548.

Schrader, G., Die Entwicklung neuer Insektizide auf Grundlage organischer Fluor- und Phosphor-Verbindungen. Verl. Chemie, GmbH., Weinheim/Bergstr. 1952. 2., erw. Aufl., 96 S. (Monogr. »Angew. Chemie« u. »Chemie-Ing.-Techn.« Nr. 62).

Sellke, K., Die Wirkung von Berührungsgiften auf verschiedene Insektenarten und eine biologische Methode zur quantitativen Bestimmung von Gamma-Hexachlorcyclohexan in Pflanzenschutzmitteln. Nachr.bl. dtsch. Pfl.schutzd., Berlin, NF. 6. 1952, 201—207, 5 Abb.

Sinclair, W. B., and **Crandall, P. R.,** Determination of ethylene dibromide in liquid and gas phases by the use of monoethanolamine. J. econ. Ent. 45. 1952, 80—82.

Sinclair, W. B., and **Crandall, P. R.,** Methods for determining ethylene chlorobromide and ethylene dibromide. J. econ. Ent. 45. 1952, 882—887, 3 fig.

Skerrett, E. J., and **Woodcock, D.,** Insecticidal activity and chemical constitution. II. Synthesis of some analogues of DDT. III. A new synthetic route to methyl analogues of DDT. IV. Synthesis of 2,2-di-p-chlorophenyl-3-methylbutane. V. Synthesis of some di-p-chlorophenylalkanes. J. chem. Soc., London, 1950, 2718—2724; 1952, 2804—2806, 2806—2810, 3308—3312.

Sparr, B. I., Preliminary screening of emulsifiable toxaphene concentrates. US Bur. Ent., Plant Quar., Washington, E—847. 1952, 5 p.

Spear, P. J., and **Sweetman, H. L.,** Continuous vaporization of insecticides with special reference to DDT. J. econ. Ent. 45. 1952, 869—873, 1 fig.

Speroni, G., Jovine, L., and **Perini, M.,** (Binary systems of the isomers of benzene hexachloride and possibilities of cryoscopic determination of the gamma isomer.) Chim. e Ind., Milano, 34. 1952, 4—6.

Stage, H. H., Use of DDT. Rur. Missions 83. 1952, 2.

Sternburg, J., and **Kearns, C. W.,** Chromatographic separation of DDT and some of its known and possible degration products. J. econ. Ent. 45. 1952, 505—509.

Sternburg, J., and **Kearns, C. W.,** Metabilic fate of DDT when applied to certain naturally tolerant insects. J. econ. Ent. 45. 1952, 497—505.

Stübner, K., Fluoreszenzmikroskopischer Nachweis von DDT und seinen Mitteln. Anz. Schädl.kunde 25. 1952, 97—100, 7 Abb.

Sun, Yun-Pei, and **Sun, Jung-Yi Tung,** Microbioassay of insecticides, with special reference to aldrin and dieldrin. J. econ. Ent. 45. 1952, 26—37.

Thielecke, H., Hexachlorcyclohexan im Pflanzen- und Vorratsschutz, in der Hygiene und Tiermedizin. Ernährg. Pflanze 2. 1952, 104—112.

Vastagh, G., Vastagh, E., and **Gervay, V.,** Über die Bestimmung vom Gesamt-Chlorgehalt in DDT und DDT-haltigen Präparaten. Arch. Pharm., Berlin, 285. 1952, 165—168.

Vita, D., and **de Angeli, L.,** (Quantitative determination of dieldrin.). Rend. Ist. super. Sanità, Roma, 15. 1952, 91—93.

Wade, P., Determination of fumigants. XXII. Photometric determination of brominated hydrocarbon fumigants as inorganic bromide. J. Sci. Food, Agric., London, 3. 1952, 390—393.

Waud, R. A., A study of the toxicology of the insecticide aldrin (hexachloro-hexahydro-dimethano naphthalene). J. Pharmac., exp. Therap., Baltimore, 106. 1952, 423.

Weber, E., Bemerkung zur Bestimmung von DDT (Dichlordiphenyltrichloräthan) und HCCH (Gamma-Hexachlorcyclohexan) nebeneinander durch indirekte Analyse. Ztschr. analyt. Chemie 135. 1952, 113—115.

Weissmahr, J., (DDT and its manufacture.) Quimica, Rio de Janeiro, 8. 1952, 39—41.

West, T. F., and **Campbell, G. A.,** DDT and newer persistent insecticides. Chem. Publishing Co., Inc., New York 1952. 632 p., 13 tab.

Yamasaki, T., and **Ishil, T.,** (Studies on the mechanism af action of insecticides. V. The effects of DDT on the synaptic transmission in the cockroach [Periplaneta picea].) Oya-kontyu (Nippon Soc. appl. Ent.), Tokyo, 8. 1952, 111—118.

Yarar, Ö., Benezene hexachloride'in gama-izomer muhteyiyatının tâyini. Bitki Koruma Bült. (Bull. Plant Prot.), Ankara, 1952, nr. 3, p. 65—70, 4 fig.

Aldrin and dieldrin for the control of pollen beetle (Meligethes aeneus), winter moth (Operophtera brumata), codling moth (Cydia pomonella), and apple blossom weevil (Anthonomus pomorum). Agric. Bull. (Shell) ADB 248. 1952, 2 p.

Aldrin and dieldrin resumé. 1951/52. J. Hyman & Comp., Denver (Colorado) 1952. various pagings.

Chloranil, a coined name for the fungicidal chemical tetrachloro-para-benzoquinone. Phytopathology 42. 1952, 288.

DDT made in Japan. DDT Assoc. Com. Japan 3. 1952, nr. 8, p. 29—30.

Gesarol und E 605 in der Gartenapotheke. Landw. Wochenbl. München 142. 1952, 788, 1 Abb.

Properties and effectiveness of heptachlor. [contains a list of pests controlled by heptachlor and concentrations suggested] Agric. Chem., Baltimore, 7. 1952, nr. 9, p. 35—37, 125—127.

Recommended uses of dieldrin. Agric. Bull. (Shell) ADB 213. 1952, 13 p.

Shell dieldrex 15. Shell Chem. Corp., New York 1952(?) 5 p.

Shell 25% dieldrin wettable powder. Shell chem. Corp., New York 1952. 2 p.

Toxaphene agricultural insecticides. Hercules Powder Comp., Wilmington (Delaware) 1952. 28 p.

Natriumchlorat gegen Unkräuter
Sodium chlorate against weeds
Chlorate de sodium contre des mauvaises herbes

(Siehe auch — see also — voyez aussi p. 339.)

Peters, N., Brand- und Explosionsgefahr bei chlorathaltigen Unkrautbekämpfungsmitteln. Nachr.bl. dtsch. Pfl.schutzd., Berlin, NF. 6. 1952, 16.

Pflanzenstoffe und synthetische Analoge
Vegetal matter and synthetical analogues
Substances végétales et produits analogues synthétiques

Althaus, B., Eigenschaften und Wirkweise des neuen Rattengiftes Dicumarol. Anz. Schädl.kunde 25. 1952, 123—124.

Bangham, W. J., Pirenona: nuevo insecticida no tóxico. Hacienda, Caracas, 47. 1952, nr. 4, p. 51—53. — Rev. Bolsa Com., Rosario (Argent.), 40. 1952, nr. 975, p. 7—8. — Bol. Asoc. Gen. Agric. Guatemala 1952, 6.

Blackith, R. E., A note on the action of heat and rust on a pyrethrum formulation. Pyrethrum Post 4. 1952, nr. 2, p. 2.

Blackith, R. E., Stability of contact insecticides. I. Ultra-violet photolysis of the pyrethrins. II. Protection of the pyrethrins against ultra-violet photolysis. J. Sci. Food, Agric., London, 3. 1952, 219—224, 1 fig.; 224—230, 1 fig.

Boocock, D., Use of pyrethrum with the Todd insecticidal fog applicator-Tifa. Pyrethrum Post 4. 1952, nr. 2, p. 18–22.

Breny, R., La défense des cultures. V. Les insecticides organiques d'origine végétale. VII. Les hydrocarbures chlorés. L'HCH Bull. hortic. (Belgique) 7 (n. ser.). 1952, 99—103, 163—167.

Chandler, S. E., Applications of pyrethrum in public health and related fields. Pyrethrum Post 3. 1952, 2—6.

Connolly, P. J., Pyrethrins sulfoxide for food plant insect control. Pest Control, Ohio, 20. 1952, nr. 5, p. 24.

Crombie, L., The structure of an insecticidal isobutylamide from pellitory root. Chem. and Ind. (Rev.), London, 42. 1952, 1034—1035.

Delhaye, R. J., L'étude de la pourriture des inflorescences de pyrèthre à la station de Mulungu. [Ramularia bellunensis] Bull. Inform. Inst. Étud. agron. Congo Belge 1. 1952, 305—320, 6 fig.

Dormal, S., Frear, D. E. H., and **Dills, L. E.,** Chlorinated nicotine derivatives as insecticides. J. econ. Ent. 45. 1952, 73—75.

Dyke, G. V., and **Simpson, E. P.,** The chemical analysis of pyrethrum. Appl. Statistics (Scotland) 1. 1952, 95—105.

Elliott, M., The insecticidal activity of the pyrethrins and related compounds. Dept. Insectic. Fungic., Rothamsted Exp. Stat., [1952], 11 p., 3 fig.

Feinstein, L., Insecticides from plants. US Dept. Agric. Yearb. Agric. 1952, 222—229.

Gatin, A., Pulverisation de bouillie bordelaise en vue de la lutte contre le Ramularia bellunensis du Chrysanthemum cinerariaefolium et son effet sur la teneur en pyrethrines. Bull. Doc., Techn. agric. 6. 1952, nr. 20, p. 33—41.

González Gallardo, A., y **Doty. R. E.,** El combate de la rata cañera en El Dorado (Mejico); empleo de la »warfarina.« Vida agric., Lima (Perú), 29. 1952, 297, 299—304.

Griffin jr., E. L., Macpherson Phillips, G. W., Claffey, J. B., Skalamera, J. J., and **Strolle, E. O.,** Nicotine sulfate from Nicotiana rustica. Ind., engin. Chem. 44. 1952, 274—279.

Hagemann, R. H., Pagán, C., and **Loustalot, A. J.,** The effect of elevation on growth, carbohydrates and insecticidal constituents of Derris and Lonchocarpus. Proc. amer. Soc. hortic. Sci. 59. 1952, 336.

Hole, K. W., Some recent results of using pyrethrins/piperonyl butocide liquids with the microsol mechanical fog generator. Pyrethrum Post 3. 1952, 25—28.

Howe, R. W., Experiments on the use of pyrethrum powder as an admixed dust in the Tropics. Pyrethrum Post 4. 1952, nr. 2, p. 4—6.

Incho, H. H., and **Greenberg, H.,** Synergistic effect of piperonyl butoxide with the active principles of pyrethrum and with allethrolone esters of Chrysanthemum acids. J. econ. Ent. 45. 1952, 794—799, 5 fig.

Javier Gazzo, F. D., e **Romero Peralta, J.,** Un neuvo método analitico rapido para valorar la riqueza de rotenona pura en las raices de Lonchocarpus utilis (cube o barbasco). Rev. bras. Quim. (Cien. e Ind.), São Paulo, 33. 1952, 228—229.

Jones, H. A., A review of methods for the chemical analysis of rotenone-bearing plants. US Dept. Agric. Bur. Ent., Plant Quar, E-563. 1952, 82 p.

Jones, H. A., Ackermann, H. J., and **Webster, M. E.,** Colorimetric determination of piperonyl butoxide. J. Assoc. off. agric. Chemists, Washington, 35. 1952, 771—780.

Kelsey, D., Report on pyrethrins. J. Assoc. off. agric. Chemists, Washington, 35. 1952, 368—371.

Kikutani, M., and **Oshima, Y.,** (Chemical studies on the insecticidal principle of »haedokuso« Phryma leptostachya L. I. The distribution in the plant and isolation of the insecticidal principle.) Botyu Kagaku (Sci. Insect Control) 17. 1952, 10—14.

Könemann, E., Drogen als Spritz- und Stäubemittel bei der biologischen Schädlingsbekämpfung im Obstbau und bei den übrigen Nutzpflanzen. [Pyrethrum, Derris] Bebauet die Erde 22. 1952, 46, 54.

Kyd, S., How to kill rats with warfarin. Oklahoma agric. Coll. Ext. Circ. 567. 1952, 4 p.

Laforge, F. B., and **Green, N.,** Constituents of pyrethrum flowers. XXV. The synthesis of d-cinerolone, cinerin I, and its optical isomers. J. organic. Chem., Baltimore, 17. 1952, 1635—1640.

Laue, G., Die neuen Cumarin-Mittel zur Rattenbekämpfung. Nachr.bl. dtsch. Pfl.schutzd., Berlin, NF. 6. 1952, 127—130.

Lhoste, J., et **Leibovici, Ch.,** Contribution à l'étude du »Warfarine« raticide nouveau. Parasitica, Gembloux, 8. 1952, 143—149, 2 fig.

Lord, K. A., Ward, J., Cornelius, J. A., and **Jarvis, M. W.,** Chromatographic separation of the pyrethrins. J. Sci. Food, Agric., London, 3. 1952, 419—426.

Mallis, A., Miller, A. C., and **Sharpless, R. V.,** Effectiveness against house flies of six pyrethrum synergists alone and in combination with piperonyl butoxide. J. econ. Ent. 45. 1952, 341—343.

Mayer, E. L., Robertson, C., Nelson, R. H., and **Woodward, C. F.,** Nicotine insecticides. VII. Search for synergists. US Bur. Ent., Plant Quar., E-836. 1952, 8 p.

Meyer, E., Erfahrungen über die Bekämpfung schädlicher Nagetiere mit Tomorin. Schädlingsbekämpfung 44. 1952, 161—171, 18 Abb.

Miller, A. C., Pellegrini jr., J. P., Pozefsky, A., and **Tomlinson, J. R.,** Synergist is action of piperonyl butoxide fractions and observations refuting a pyrethrins-butoxide complex. J. econ. Ent. 45. 1952, 94-97.

Monseur, X. G., van Bever, M. L., and **Detroux, L.,** Valeur insecticide de quelques Tephrosia du Congo Belge. Meded. Landbouwhoogesch., Opzoek. stat. Gent 17. 1952, 119—133.

Morrow, M. G., Plants that kill insects. Sci. News Letter, Washington, 61. 1952, 330—332.

Nair, K. N. R., The cultivation of pyrethrum in the Nilgiris (South India). [Chrysanthemum cinerariaefolium] Indian Forester, Dehra Dun, 78. 1952, 384—399.

Oiwa, T., Inone, Y., Ueda, J., and **Ohno, M.,** Studies on the determination of pyrethroids. I. Polarographic determination of allethrin. Botyu Kagaku (Sci. Insect Control) 1952, nr. 17, p. 106—122.

Payfer, R., Report on rotenone. J. Assoc. off. agric. Chemists, Washington, 35. 1952, 371—372.

Pellegrini jr., J. P., Miller, A. C., and **Sharpless, R. V.,** Biosynthesis of radioactive pyrethrins using $C_{14}O_2$. J. econ. Ent. 45. 1952, 532—536, 3 fig.

Pellegrini jr., J. P., Miller, A. C., and **Sharpless, R. V.,** Biosynthetic preparation of C^{14} — labeled pyrethrins. Proc. Mid — Year Meetg. chem. Specialt. Manufact. Assoc. Off. 38. 1952, 89—91.

Potter, C., and **Lord, K. A.,** The problem of the estimation of the insecticidal activity of pyrethrum by biological and chemical methods. Pyrethrum Post 3. 1952, 12—19.

Rader, W. E., Monroe, C. M., and **Whetstone, R. R.,** Tetrahydropyrimidine derivatives as potential foliage fungicides. Science, Lancaster, 115. 1952, 124—125.

Rangaswami, S., and **Sastry, B. V. R.,** Chemical examination of plant insecticides. VI. Root bark of Tephrosia lanceolata Grah. Proc. indian Acad. Sci. (Sect. A) 35. 1952, 166—172.

Roark, R. C., A digest of information on allethrin. US Dept. Agric. Bur. Ent., Plant Quar., E-846. 1952, 58 p.

Seshadri, T. R., and **Varadarajan, S.,** Insecticidal properties and chemical constitution. Part VI. Some phenyl and halogen substituted coumarins. Proc. indian Acad. Sci. (Sect. A) 35. 1952, 75—81.

Smith, H. A., Pyrethrum at the crossroads. Soap, sanit. Chem. 28. 1952, nr. 6, p. 155, 157, 189.

Toxopeus, H. J., Studies in the breeding of Derris elliptica and Derris malaccensis. 1. Variation and the origin of the cultivated material. 2. Crossbreeding, cytological observations, genetic system. Euphytica, Wageningen, 1. 1952, 34—42, 1 fig.; 175—183, 2 fig.

Vargas Méndez, J., Viischer Caballero, E., Gazzo, J., Dávila, F., y **Romero Peralta, J.,** El factor muestreo y su influencia en los estudios experimentales sobre el Lonchocarpus utilis, cube o barbasco. Rev. bras. Quim. (Cien. e Ind.), São Paulo, 33. 1952, 228 (Abstr.).

Walker, A., Insecticides et mort aux rats du Gabon. [insecticidal plants] Rev. int. Bot. appl., Agric. trop., Paris, 32. 1952, 188—190.

Winteringham, F. P. W., Separation and detection of the pyrethrin-type insecticides and their derivatives by reserved phase paper chromatography. Science, Lancaster, 116. 1952, 452—453.

Yamada, R., Sato, T., and **Iwata, J.,** (Quantitative analysis of pyrethrins by the polarographic method.) Botyu Kagaku (Sci. Insect Control) 17. 1952, 31—37.

Zobrist, L., Rotenon und seine Verwendung als Insektizid. Schweiz. Gärtnerztg. 55. 1952, Nr. 24, S. 1—4.

Pyrethrumernte in Tanganjika. Schädlingsbekämpfung 44. 1952, 178.

Varia

Baichwal, R. S., and **Khorana, M. L.,** Antibacterial, antifungal and insecticidal properties of naphthalene and its derivatives. J. sci., ind. Res., Delhi, 11 A. 1952, 197—201.

Bangham, W. N., (Pyrenone, new non-toxic insecticide.) Fazenda, New York, 47. 1952, nr. 6, p. 35—37.

Barbier, P., Rumpf, P., et **Muterel, A.,** Étude comparative de l'activité insecticide de quelques dérivés du diphenyléthane et de la méthylphénylsulfone. Bull. Soc. Chim. biol., Paris, 34. 1952, 1005—1015.

Bareiß, Unkrautbekämpfung im Getreide mit Gelbspritzmitteln. Württ. Wochenbl. Landw. 119. 1952, 337—338, 2 Abb.

Bohmont, D. W., Herbicidal properties of shale oil fractions. Nebraska Univ., Abstr. Diss. 13. 1952, 10—14.

Bohmont, D. W., Shale oil — a new agricultural chemical. Wyoming agric. Exp. Stat. Bull. 320. 1952, 40 p.

Bosse, G. H. C., Versuche mit einem neuartigen Schädlingsbekämpfungsmittel im Gartenbau. Höfchen-Briefe, Leverkusen, 5. 1952, 81—89.

Bottger, G. T., Yerington, A. P., and **Gertler, S. I.,** Preliminary tests of some N-substituted anisamids and esters of anisic acid as insecticides. US Bur. Ent., Plant Quar., Washington, E-852. 1952, 10 p.

Breny, R., La défense des cultures. IX. X. Les huiles et autres insecticides: D.N.O.C. Les phosphates organiques: l'H.E.T.P., le T.E.P.P. et le E. 605. [insect control] Bull. hortic. (Belgique) 7 (n. ser.). 1952, 227—233, 251—257.

Carvajalino Jacome, L. J., Un producto de transcendental importancia. [Pyrenone] Rev. agríc., ganad. (Colombia) 13. 1952, nr. 154, p. 8—9.

Chancogne, M., Étude des actions ovicides. III. Influence des mouillants sur la toxicité du dinitrocrésylate de sodium. Ann. Épiphyties, Paris, 3. 1952, 323—328, 1 fig.

Ciferri, R., Relazione preliminare sull'impiego dell' »Ibertox« quale diserbante selettivo. Not. Mal. Piante nr. 19. 1952, 1—4.

Ciferri, R., Sensibilita' del frumento autunnovernino e primaverile al »Weedone« e all' »Ibertox«. Not. Mal. Piante nr. 19. 1952, 6—14.

Collins, D. L., Thermal oil fogs as insecticides and insecticide carriers. Advances Chem. Ser. 7. 1952, 60—69.

De Payrebrune, G., Die Mineralöle in der Unkrautbekämpfung. Ztschr. Pfl.krankh. 59. 1952, 255—275, 6 Abb.

Dotzenko, A. D., and **Whitworth, J. W.,** Oils for control of weeds on ditchbanks. New Mexico agric. Exp. Stat. Press Bull. nr. 1065. 1952, 3 p.

Emond, R. E., The utilization of petroleum products as herbicides. Proc. 5th Meetg east. Sect. nat. Weed Comm., Quebec, 1951. 1952, 52—56.

Feinstein, L., A new reaction and color test for allethrin and pyrethrins. Science, Lancaster, 115. 1952, 245—246.

Feldman, A. W., and **Smith, A. E.,** Phthalamic acid derivatives for pre-emergence weed control. Proc. south. Weed Conf., Atlanta, 5. 1952, 12—14.

Ferguson, W., and **Jasmin, J. J.,** Some results with herbicidal oils of different aromatic content. Proc. Canada nat. Weed Comm., East. Sect., 5 (1951). 1952, 57—59.

Galley, R. A. E., The place of dinitrophenols and organophosphorus compounds in agriculture. Proc. R. Soc. Med. 45. 1952, 567—569.

Gonggrijp, J., (Der Gebrauch von aromatischen Ölen zur Unkrautbekämpfung in Indonesien.) Meded. Landbouwhoogesch., Opzoek. stat. Gent 17. 1952, 16—27.

Grandori, L., Effects léthaux sélectifs d'une substance acetylcholinique sur quelques espèces d'insectes. Trans. IXth int. Congr. Ent., Amsterdam, 1 (1951). 1952, 269—272.

Granström, B., and **Ottosson, L.,** Dinitrobutylfenol som ogräsbekämpningsmedel. (Dinitrobutyl phenol as a herbicide.) Växtodling, Uppsala, 7. 1952, 40—61.

Grob, H., Expériences sur la lutte contre les aphides avec de nouvelles substances à base d'uréthane et d'esters phosphoriques. 3. Congr. int. Phytopharm., Paris, Sept. 1952.

Havis, J. R., Dallyn, S., and **Sweet, R. D.,** Herbicidal properties of petroleum hydrocarbons. Advances Chem. Ser. 7. 1952, 75—83.

Heringa, J. W., and **Swarbrick, T.,** Petroleum oil fractions as plant spray materials. The effect of refining an oil upon its degree of phytotoxicity. Ann. appl. Biol 39. 1952, 213—220.

Heseltine, W. W., Sodium propionate and its derivatives as bacteriostatics and fungistatics. J. Pharm., Pharmacol., London, 4. 1952, 577—581.

Holm, L., Maleic hydrazide. Proc. north centr. Weed Control Conf. 9. 1952, 99—100.

Hunold, G. A., α-Naphthylthioharnstoff, Nachweis und quantitative Bestimmung. Arzneimittel-Forsch. 2. 1952, 125—127.

Ivens, G. W., The phytotoxicity of mineral oils and hydrocarbons. Ann. appl. Biol. 39. 1952, 418—422.

Jaffé, W. G., Influence of cobalt on reproduction of mice and rats. Science, Lancaster, 115. 1952, 265—267.

Janke, A., und **Beran, F.,** Über die Einwirkung von Schwermetallsalzen auf Pilze. Beitrag zur Kenntnis der Wirkungsweise von Schwermetall-Mikrobiziden. I. Die Bedeutung der Thiol-Verbindungen für die lebende Zelle und deren Beeinflussung durch keimschädigende Mittel. Pflanzenschutzberichte, Wien, 8. 1952, 161—178.

Kaudy, J. C., Berger, K. C., and **Truog, E.,** Borax applications to canning and sugar-beets for the control of weeds. Agron. J., Washington, 44. 1952, 409—411.

Le Fave, G. M., and **Skiles, B. L.,** The efficacy of certain substituted phenols and their salts as fungicidal agents. Butler Univ. bot. Stud., Indianapolis, 10. 1952, 101—107.

Matsubara, H., On the synergistic action of the some compounds containing two 3,4-methylene-dioxyphenyl groups with Pyrethrins. Botyu Kagaku (Sci. Insect Control) 17. 1952, 143—148.

Miller, L. P., McCallan, S. E. A., and **Weed, R. M.,** Interaction between fungus spores and sulfur, ferbam, and 2-heptadecyl-2-imidazoline aus shown by radioactive tracers. Phytopathology 42. 1952, 14—15 (Abstr.).

Owens, R. G., Chemical constitution of quinones in relation to amylase inhibition and fungitoxicity. Phytopathology 42. 1952, 471.

Penfold, A. R., and **Morrison, F. R.,** Some Australian essential oils in insecticides and repellents. Soap, Perfum., Cosm. (England) 25. 1952, 933—934.

Rottmann, G., Kalkstickstoff als Unkrautvernichter und Düngemittel. Hannov. land-, forstw. Ztg. 105. 1952, 1059, 1061.

Saptharishi, K., and **Azariah, M. D.,** Weed control by chemicals trails with extra »A« (Sandoz). Madras agric. J. 39. 1952, 621—622.

Sazonov, P. V., (Utilization of mineral oils in pest control.) Sad i Ogorod (Orchard and Garden) 1. 1952, 40—41.

Schrader, G., Die Entwicklung neuer Insektizide auf Grundlage organischer Fluor- und Phosphorverbindungen. Höfchen-Briefe, Leverkusen, 5. 1952, 45—57.

Schütze, P., Brikettasche zur Schädlingsbekämpfung. Zentralbl. dtsch. Erwerbsgartenbau 4. 1952, Nr. 14, S. 3.

Simon, E. W., The relative toxicity of nitrophenols to various organisms. Ann. appl. Biol. 39. 1952, 416—418.

Simon, E. W., Roberts, H. A., and **Blackman, G. E.,** Studies in the principles of phytotoxicity. III. The p_H factor and the toxicity of 3,5-dinitro-o-cresol, a weak acid. J. exp. Bot. 3. 1952, 99—109.

Steavenson, H. S., Experiences in using allyl alcohol for weed control. US Forest Serv. Tree Planters' Notes 12. 1952, 7.

Sumiki, Y., Yamamoto, K., and **Takedi, K.,** Invert soaps as fungicides. J. agric. chem. Soc. Japan 26. 1952, 325—328.

Thoenessen, C., Bakterizide und insektizide Wirkstoffe aus Kohle. Brennstoff-Chemie, Essen, 33. 1952, 208.

Tilemans, E. M., Quelques nouveautés au sujet des insecticides. [discusses DDT, benzene hexachloride, and organic phosphate and systemic insecticides] Bull. agric. Congo Belge 43. 1952, 71—69.

Uhl, H., Die Anwendung von Kalkstickstoff und Feinkaninit gegen die Ackerunkräuter auf Kalkböden sowie Untersuchungen über deren Keimlinge und Keimungsbiologie. Ztschr. Acker-, Pfl.bau 95. 1952, 121—158, 13 Abb.

Uhl, H., Untersuchungen über die Anwendung von Kalkstickstoff und Feinkainit gegen die Ackerunkräuter auf Kalkböden. (Diss.-Auszug.) AID-Rundschau 2. 1952, Nr. 4, S. 16, 1 Abb.

Warren, G. F., N-1 naphthyl phthalamic acid. Proc. north centr. Weed Control Conf. 9. 1952, 100—101.

White, G. L., The dream came true! [development of an oil spray and equipment for weed control] Arkansas Farmer 54. 1952, nr. 2, p. 12—13.

Wilson, J. S., Dinitros. [herbicides] Proc. Canada nat. Weed Comm., East. Sect., 5 (1951). 1952, 63.

Maleic hydrazide — a growth stopping weed killer. Farm Mangagem. 1. 1952, nr. 3, p. 37—39.

Raticides et formicides. Phytoma, Paris, 5. 1952, nr. 35, p. 16.

Vogel- en wildafweermiddelen. Tuinbouwgids, Den Haag, 1952, 259.

d. Physikalische und mechanische Mittel, Geräte

Physical and mechanical means, machines

Moyens physiques et mécaniques, outillage

Aldrich, D. G., A pressure apparatus for tree injection. Proc. amer. Soc. hortic. Sci. 59. 1952, 349—351, 1 fig.

Anderson, E. D., Engineering developments and challenges in chemical weed control. [sprays and spraying equipment] Agric. Engin. 33. 1952, 482—484, 486.

Anderson, E. D., It's time for a check-up on sprayers and dusters. Impl., Tractor, Kansas City, 67. 1952, nr. 9, p. 40—42, 84.

Anderson, E. D., Once over lightly. [sprayers] Pop. Gardg. (Albany) 3. 1952, nr. 6, p. 30, 64—65.

Baker, H., and **Hienton, T. E.,** Traps have some value. US Dept. Agric. Yearb. Agric. 1952, 406—411.

Beinert, W., Neue Motorbaumschulspritze für Pferdezug. Gartenwelt 52. 1952, 69, 2 Abb.

Beskine, J. M., The use of the low-volume mist blower. World Crops, London, 4. 1952, 338—343.

Biondl, L., (Sprayers in agriculture.) Terra e Sole 114. 1952, 43—44.

Boocock, D., Use of pyrethrum with the Todd insecticidal fog applicator — Tifa. Pyrethrum Post 2. 1952, nr. 4, p. 18—22.

Borstell, H. C. v., Hubschraubereinsatz im Bundesgebiet. Mitt. Biol. Zentralanst. H. 74. 1952, 159—163.

Boshoff, W. H., Characteristics of a spinning disk liquid sprayer. Proc. int. Mech. Eng. 166. 1952, 443—446.

Breniere, J., La lutte antiacridienne en 1949 et 1950 au moyen d'avions et d'hélicoptères dans le Sud-Ouest de Madagascar. Agron. trop., Nogent-sur-Marne, 7. 1952, 164—169.

Bronson, T. E., and **Anderson, E. D.,** Choosing and using hand equipment. US Dept. Agric. Yearb. Agric. 1952, 262—270, 3 tab.

Bürnheim, Schädlingsbekämpfung mit Drachenflugzeugen. Dtsch. landw. Presse 75. 1952, 136—137.

Burrell, A. B., Another season's experience with concentrate spraying. [chiefly equipment] Americ. Fruit Grower, Cleveland (Ohio), 72. 1952, nr. 2, p. 18, 50—52.

Bush, R., Taking the nozzles up ever so high. Grower 37. 1952, 1378—1379.

Busvine, J. R., Disinfestation of aircraft by aerosols. Pyrethrum Post 4. 1952, nr. 2, p. 23—25.

Carlyle, R. E., and **Wright, J.,** Aerial spraying for better crop yields. Crops and Soils, Madison (Wisconsin), 4. 1952, nr. 8, p. 18—20.

Charin, S. A., and **Kaplan, R. M.,** (A widegripping fire hose for spraying fruit crops.) Dokl. Vsesouizn. Akad. Sel'skohoz. Nauk im. V. I. Lenina (Proc. Lenin Acad. agric. Sci.) 17. 1952, nr. 7, p. 40—44.

Cohen, G., (Determining the calibration of sprayers.) Hassadeh, Tel Aviv, 32. 1952, 399—401.

Cohen, G., Low pressure sprayers made in Israel. Hassadeh, Tel Aviv, 32. 1952, 210—211.

Collomb, C., Les tendances actuelles de la technique française en matière d'appareils de défense chimique des végétaux. Phytoma, Paris, 5. 1952, nr. 40, p. 55—58, 2 fig.

Cooke, R. J., Battle of the budworm (Choristoneura fumiferana). [spraying by aircraft in Canada] Forest and Outdoors (Ontario) 48. 1952, nr. 9, p. 14—15, 26.

Corl, C. S., A method for the testing and comparison of Brodjet sprayers. Proc. north centr. Weed Control Conf. 9. 1952, 40—41.

Crosbie, C. J., Principles of low volume sprayers. World Crops, London, 5. 1952, 141—145.

Cunningham, R. H., A self-propelled herbicide sprayer for experimental plots. Sci. Agric., Ottawa, 32. 1952, 285—288, 4 fig.

Dauberschmidt, K., Zur Gerätefrage bei der Forstschädlingsbekämpfung. Allg. Forstztschr. 7. 1952, 42—45, 4 Abb.

Daulton, R. A. C., and **Stokes, W. M.,** The destruction or inhibition of root-knot nematodes by exposure to an electrostatic field. Empire J. expr. Agric. 20. 1952, 271—273.

De Palma, L., (Disinfestation and equipment under vacuum.) Rass. chim., Roma, 4. 1952, nr. 6, p. 13—17.

Derscheid, L. A., Sprayers for use on experimental plots. Weeds 1. 1952, 329—337.

Di Lauro, B., (Italian multiple-purpose sprayers for a better technique in controlling plant diseases.) Macchine, Motori agric., Roma, 10. 1952, 379—381.

Dinkla, P. E., (Maintenance of steel spray tanks.) Fruitteelt, Arnhem, 42. 1952, 47.

Domínguez Martin, J., Sueños de butaca de cine. [spraying from aircraft] Rev. Vinic., Agric., Zaragoza (España), 73 (ser. 2). 1952, 38.

Dünnebeil, H., Die Entwicklung der Motorisierung in der Schädlingsbekämpfung. Nachr.bl. dtsch. Pfl.-schutzd., Berlin, NF. 6. 1952, 42—45, 5 Abb.

Dünnebeil, H., Neue Pflanzenschutzgeräte in Markkleeberg. Dtsch. Agrartechn. 2. 1952, 167—170.

Dünnebeil, H., Die sowjetische kombinierte Spritz- und Stäubemaschine OKS. Wald (Ztschr.Forstw.-Holzw.) 2. 1952, 117—118.

Eickstedt, H. v., Pflanzenschutz in USA. [Geräte] Landtechnik 7. 1952, 417—421.

Eickstedt, H. v., Stand der US-Pflanzenschutztechnik. Mitt. Biol. Zentralanst. H. 74. 1952, 166—168.

Engel, Ein Umbruch in der Produktion von Pflanzenschutzgeräten! Sprüher und Vernebler im Obstwein- und Gemüsebau. Bauern-Ztg. 5. 1952, nr. 42, p. 9,12.

Engelhard, J., Voici la désinfection du sol à la vapeur. [equipment] Rustica (France) 25. 1952, 963.

Engesser, H., Untersuchungen an Spritzdüsen für gespanngezogene Spritzen zur Schädlingsbekämpfung. Landtechn. Forsch. 2. 1952, 91—100.

Ext, W., Vielseitig verwendbare Pflanzenschutzgeräte für Groß- und Kleinbetriebe. Kartoffelbau, Hamburg, 3. 1952, 18—20, 2 Abb.

Fairbanks, G. E., Spraying equipment for weed control. Kansas State Coll. Engin. Exp. Stat. Bull. nr. 66. 1952, 53 p.

Fear, G., General principles, care and maintenance of spraying machines. J. Inst. Corn, agric. Merch., London, 3. 1952, 166—169.

Feis, N., (Mist sprayers for the orchard. I—III.) Fruitteelt, Arnheim, 42. 1952, 477, 490—491.

Fletcher, F. C., Low-volume spraying equipment for weed control. Power Farming Austr. (New Zealand) 61. 1952, nr. 2, p. 41—43, 45, 47.

Fransen, J. J., Aerial spraying in the Netherlands. Compt. rend. III^e Congr. int. Phytopharm., Paris, 1952, 787—793, 5 fig.

Fransen, J. J., Starrflugzeuge zur Schädlingsbekämpfung. Gesunde Pflanzen 4. 1952, 251, 1 Abb.

French, O. C., The development of a mist concentrate row crop sprayer. Inform. Let. nat. Canners Assoc. 1371. 1952, 83 (Abstr.).

Fricker, A., Lohnen sich Wühlmausfangkurse? Württ. Wochenbl. Landw. 119. 1952, 162.

Frickhinger, H. W., Fortschritte in der Technik des Pflanzenschutzes. Anz. Schädl.kunde 25. 1952, 136—137, 3 Abb.

Friend, R. B., New spray equipment for helicopter. Frontiers Plant Sci. 5. 1952, 8.

Fulton, R. A., Aerosol development program at the Bureau of Entomology and Plant Quarantine. Proc. Mid-Year Meetg. chem. Specialt. Manufact. Assoc. Off. 38. 1952, 35—36.

Gallwitz, Spritzen, Sprühen, Nebeln, Stäuben. Landtechnik 7. 1952, 150—155.

Gallwitz, K., Pflanzenpflege und Pflanzenschutz. In: Die Maschine in der Landwirtschaft (v. W. E. Fischer-Schlemm). 1952, 66 S., 73 Abb. (S. Hürzel Verlag, Stuttgart).

Garman, Ph., Efficiency of various orchard spray machines. J. econ. Ent. 45. 1952, 345—346.

Gattinara, R. C., (Equipment for spraying.) Terra e Sole (Italia) 118. 1952, 197—199.

Geffray, J., and **Geffray, Y.,** Le problème de la valeur de l'épandage aérien. Chambre Agric. Casablanca 23. 1952, nr. 258, p. 3, 5, 7.

Glemmestad, E., (Technical equipment for control of dry rot of potatoes.) Norsk Landbruk, Oslo, 18. 1952, 292—293.

Glemser, W., Haben wir genügend Motorspritzen? Obstbau 71. 1952, 78—79.

Goossen, Neues und Bewährtes bei Pflanzenschutzgeräten. Mitt. dtsch. Landw.-Ges., Frankfurt/M., 67. 1952, 361—362, 9 Abb.

Goossen, Pflanzenschutzgerätevorführung in Münster. Landw. Wochenbl. Westf., Lippe 109 A. 1952, 8.

Goossen, H., Entwicklungsstand deutscher Pflanzenschutzgeräte. Gesunde Pflanzen 4. 1952, 80—83. 6 Abb.

Gray, G. P., Wings over the rice field. Rice News 19. 1952, nr. 9, p. 9—10.

Hahn, E., Einsatz fahrbarer Spritzen im Zierpflanzen- und Gemüsebau. Gartenwelt 52. 1952, 65, 4 Abb.

Harder, K., Practical experience with fog generators. Proc. chem. Specialt. Manufact. Assoc. 39. 1952, 111—112.

Haronska, G., Pflanzenschutztechnik. Landw. Ztschr. Nord-Rheinprov. 119. 1952, 593.

Hartmann, P., Der »Unimog«, ein idealer Helfer im Pflanzenschutz. Gesunde Pflanzen 4. 1952, 319—323, 5 Abb.

Hatai, N., (Airplane applications of pesticides.) J. Plant Prot., Tokyo, 41. 1952, 400—402.

Hatai, N., and **Suzuki, T.,** (Field tests on the method of pesticide application.) J. Plant Prot., Tokyo, 37/38. 1952, 301—303.

Heal, R. E., The effectiveness of insecticide vaporizers. Proc. amer. Assoc. econ. Entomologists, North Centr. States Br., 7. 1952, 69—71.

Hedden, O. K., Aerial-spray equipment for a Piper Cub J-3 airplane. US Bur. Plant Ind., Soils, agric. Engin., Beltsville, Inform. Ser. 88. 1952, 6 p.

Hieke, E., Die Vorteile der genossenschaftlichen Benutzung von Geräten zur Schädlingsbekämpfung. Dtsch. Landw. 3. 1952, 377—379.

Hoare, E. R., The trend of agricultural engineering. Repts. Progr. appl. Chem. (Soc. chem. Ind.), London, 36 (1951). 1952, 672—675.

Höhener, H., Zwei Jahre praktische Erfahrungen in der Anwendung des Helikopters bei der chemischen Schädlingsbekämpfung in der Schweiz. Schweiz. landw. Monatsh. 5. 1952, 165—179, 6 Abb.

Hogan, T. W., Aerial spraying of locusts. J. Dept. Agric. Victoria 50. 1952, 112—114, 2 fig., 1 tab. geogr.

Imai, M., Tanabe, H., Takenaga, T., Nakagawasai, H., and **Hirata, K.,** (Studies on the blower type pest control machineries. I. Spraying character of mist-blower.) J. Kanto-Tosan agric. Exp. Stat. 3. 1952, 74—79.

Ingerson, H., and **Irons, F.,** Machines for applying insecticides. US Dept. Agric. Yearb. Agric. 1952, 258—262.

Itzerott, H., Geräte und Mittel zur Maikäferbekämpfung. Pflanzenschutz, München, 4. 1952, 33—35.

Jacks, H., A field injector for soil fumigation. Orchardist New Zealand 5. 4. 1952, 3 p., 5 fig.

Jacks, H., Seed disinfection. V. A seed-dressing apparatus for the smaller seedsman. New Zealand J. Sci., Technol. (Sect. B) 34. 1952, 249—251, 3 fig.

Jacks, H., Soil disinfection. XIII: An injector for field fumigation. New Zealand J. Sci., Technol. (Sect. B) 1952, 139—145, 7 fig.

Jensen, J. A., and **Pearce, G. W.,** Synthesis of radioactive parathion using S 35. J. amer. chem. Soc. (Pennsylv.) 74. 1952, 3184.

Johnston, C. J. R., Tent-puller: new power device successfully operated on McDonald & Sons grove at Coomealla. [fumigation tent] Citrus News 28. 1952, 26.

Kahl, E., Die Bedienung und Wartung von Pflanzenschutzgeräten. Pflanzenarzt, Wien, 5. 1952, Nr. 5, S. 6.

Kás, V., (Problem of weed dissemination with local fertilizers.) Socialist. Zeměd. (Čescosl.) 2. 1952, 156—161.

Kayser, Großflächenstreuer. Landmasch.-Markt 31. 1952, 435—437.

Koch, H., Geräteprüfung: Beizautomat »MEYS«. Nachr.bl. dtsch. Pfl.schutzd., Braunschweig, 4. 1952, 14—15.

Korotkich, G. I., (Aerosols and apparatus for obtaining them.) Sel'khozmashina (USSR) 4. 1952, 5—7.

Kuhn, L., Der Kraftbedarf von Karrenspritzen. Techn. Bauern, Gärtner (Ausg. A), Baden, 4. 1952, 473—474.

Kundert, J., Demonstration von neueren Spritzgeräten. Schweiz. Ztschr. Obst-, Weinbau 61. 1952, 480—482.

Lane, F. W. J., The low volume sprayer at work. Power Farmer 8. 1952, 47—49, 76.

Larson, R. E., Aerial application techniques. Proc. north centr. Weed Control Conf. 9. 1952, 41—42.

Larson, R. E., Mechanical considerations. Proc. north centr. Weed Control Conf. Res. Rept. 9. 1952, 162—165.

Lasschuit, J. A., (A flame-thrower for keeping roads and railroad tracks free of weeds.) Bergcultures, Batavia, 21. 1952, 79—81.

Lattner, E. J., Tractor spray gun, a modern Cinderella. Farm Impl. News, Chicago, 73. 1952, nr. 10, p. 46, 83.

Lettieri, N., (The helicopter in pest control.) [spraying for diseases, insects, and weeds] Terra e Sole (Italia) 117. 1952, 157—159.

Lewis, C. H., A homemade electric duster. Amer. Rose Mag. (Pennsylv.) 10. 1952, 18—20.

Loewel, E. L., und **Mauch, A.,** Neue Entwicklungen bei den Pflanzenschutzgeräten. Gartenwelt 52. 1952, 59—60, 6 Abb.

Lundberg, H., (Clearing brush with airplaines.) [spraying with hormone preparations] Skogen, Stockholm, 39. 1952, 221—222, 234.

Maan, W. J., Plantenziektenbestrijding met vliegtuigen. (Einsatz von Flugzeugen zur Schädlingsbekämpfung.) Loonbedrijf Land, Tuinbouw 4. 1951, nr. 12; 5. 1952, nr. 1, 2.

McCully, W. G., and **Miller, H. F.,** A simple wind gauge for unse in agricultural spraying. Texas agric. Exp. Stat. Progr. Rept. 1466. 1952, 4 p.

Mackie, R. W., Blume, J. M., and **Hagen, C. E.,** Histological changes induced in barley plants by radiation from P 32. Amer. J. Bot. 39. 1952, 229—237, 13 fig.

Malmus, N., Erfahrungen mit Nebelgeräten, insbesondere mit dem neuen Schwingfeuer-Nebelgerät in der Maikäferbekämpfung. Pflanzenschutz, München, 4. 1952, 18—24, 7 Abb.

Margolin, S. I., (Horse-drawn motorized OPM duster.) Sel'khozmashina (USSR) 8. 1952, 12—15.

Mauch, A., Die Ergebnisse der Versuche mit leistungsfähigen Spritzen und Sprühnebelgeräten. Mitt. Mitgl. Obstbauvers.ring Altes Land, usw., Jork, 7. 1952, 66—69, 3 Abb.

Mauch, A., Der Gebrauch der 3-Düsenrohre. Mitt. Mitgl. Obstbauvers.ring Altes Land, usw., Jork, 7. 1952, 93.

Messenger, K., and **Popham, W. L.,** From 0 to 5,000 in 34 years. [aircraft in insect control] US Dept. Agric. Yearb. Agric. 1952, 250—251.

Michelbacher, A. E., Middlekauff, W. W., and **Akesson, N. B.,** Duster equipment on tomatoes; effectiveness of a duster with and without hood compared in field tests controlling caterpillars. Calif. Agric., Berkeley, 6. 1952, nr. 5, p. 5.

Morris, R., Transmitted pollen and chromosomal aberrancies induced in maize by tassel exposure in a nuclear reactor. Amer. J. Bot. 39. 1952, 452—457, 1 fig.

Mühlethaler, P., Günthart, E., und **Höhener, H.,** Neuère Entwicklung der Spritztechnik im Feldbau in der Schweiz. Mitt. Biol. Zentralanst., Berlin-Dahlem, H. 74. 1952, 142—145.

Oddie, T. H., Radioactive isotopes in agricultural research. J. austr. Inst. agric. Sci. 18. 1952, 2—7.

Øyen, K., (Modern motor sprayers in gardening and nurseries.) Gartneryrket (Norge) 42. 1952, 503—505.

Osmun, J. V., Do fog machines give residual control? Pest Control, Ohio, 20. 1952, nr. 9, p. 12, 14, 16.

Osmun, J. V., Scope of use of fog machines for dispensing insecticides. Proc. chem. Specialt. Manufact. Assoc. 39. 1952, 108—109.

Paterson, J. J., and **Shanks, G. L.,** The effects of weed and insect sprays on spraying equipment materials. Sci. Agric., Ottawa, 32. 1952, 190—203.

Plate, H.-P., Das Schwingfeuernebelgerät und seine Bedeutung für die Schädlingsbekämpfung. Schädlingsbekämpfung 44. 1952, 111—116, 5 Abb.

Pozzi, E., (A new spray machine.) Riso (Italia) 1. 1952, nr. 9, p. 22—23.

Puleston, H. S., Fults, J. L., and **Payne, M. G.,** Uracil protection against ultraviolet radiation damage to a higher plant. Science, Lancaster, 115. 1952, 402—403.

Quastler, H., Schertiger, A. M., and **Stewart, W. N.,** Inhibition of plant growth by irradiation. IV. J. cell., compar. Physiol., Philadelphia, 39. 1952, 357—369.

Queisser, H., Ein neues Stäubegerät. Zentralbl. dtsch. Erwerbsgartenbau 4. 1952, Nr. 12, S. 3, 1 Abb.

Raab, Sprühnebelgerät und Schädlingsbekämpfung. Württ. Wochenbl. Landw. 119. 1952, 211.

Randolph, J. W., and **Stoner, W. N.,** Some developments in corn spraying equipment applicable in the Everglades. Proc. Florida State hortic. Soc. 65. 1952, 124—129.

Ries, S. K., and **Terry, C. W.,** The design and evalution of a small-plot sprayer. Weeds 1. 1952, 160—173.

Riley, H. P., Giles jr., N. H., and **Beatty, A. V.,** The effect of oxygen on the induction of chromatid aberrations in Tradescantia microspores by X-irradiation. Amer. J. Bot. 39. 1952, 592—597, 4 fig.

Rossa, B. B., Flugzeuge und Hubschrauber im Dienste der Schädlingsbekämpfung. Prakt. Chem, Wien, 3. 1952, 59.

Schlawe, W., Wie kann die Lebensdauer von Einspritzpumpen und Düsen verlängert werden? Dtsch. Agrartechn. 2. 1952, 222—223.

Schober, K., Rad- oder Motorspritze? Landwirtschaft, Wien, 3/4. 1952, 39—40.

Schutz, K., Über den Einfluß der Trägerstoffmengen in Spritzbrühen und Stäubemitteln auf die Technik der Verteilungsgeräte. Meded. Landbouwhoogesch., Opzoek. stat. Gent 17. 1952, 182—202.

Schwarz, G., Stationäre Spritzanlagen im Intensivobstbau. Hess. Obstbau 7. 1952, 55—57.

Shanks, G. L., General development of the boomless sprayer. Proc. north centr. Weed Control Conf. 9. 1952, 38—40.

Shanks, G. L., and **Paterson, J. J.,** The Riley spraygraph. Agric. Engin. 33. 1952, 428.

Shaw, W. C., and **Swanson, C. R.,** Techniques and equipment used in evaluating chemicals for their herbicidal properties. Weeds 1. 1952, 352—365.

Smith, H. L., Railway application equipment for weed, grass and brush control by use of chemicals. Proc. north centr. Weed Control Conf. 9. 1952, 43—44.

Smith, H. P., and **Brown, E. C.,** Mounting for preemergence press wheel-rollers and sprayer nozzles. Texas agric. Exp. Stat. Progr. Rept. 1520. 1952, 2 p.

Snegowski, J. F., Vervollkommnung der Mechanismen für die landwirtschaftlichen Bestäubungsmaschinen. Dtsch. Agrartechn. 2. 1952, 301—303.

Solavaggione, L., Italien realizations of a new technique for agricultural spraying. Genio rur. (Italia) 15. 1952, 319—324.

Sproßmann, G., Forstschädlingsbekämpfung durch Einsatz von Nebelgeräten. Mitt. Biol. Zentralanst., Berlin-Dahlem, H. 74. 1952, 102—103.

Stanton, H. S., Equipment and cultural practices important in chemical weed control. Texas Livestock J., Austin, 11. 1952, nr. 5, p. 8, 75. — Arkansas Farm Res. 1. 1952, 2—3.

Stearns jr., C. R., et al., Methods if applying insecticide with different spray machines. Citrus Mag. 15. 1952, nr. 4, p. 34—37.

Stoner, W. N., and **Randoph, J. W.,** A spray machine for experimental trials of pesticides under actual field conditions. Proc. Assoc. south. agric. Workers 49. 1952, 84 (Abstr.).

Suggitt, J. W., The use of aircraft for right of way brush control. Proc. Canada nat. Weed Comm., East. Sect., 5 (1951). 1952, 65—66.

Sullivan, W. N., Tests with lindane vapor for freeing aircraft from insects. J. econ. Ent. 45. 1952, 544—545.

Tanada, T., Effect of oxygen concentration on the sensitivity of barley seedlings to gamma rays. Amer. J. Bot. 39. 1952, 705—706, 2 fig.

Tarasiuk, A. S., (OTL-30 tractor mounted duster for KD-35 tractor.) Sel'khozmashina (USSR) 11. 1952, 21—22.

Terrell, T. T., Solid stream nozzle for spraying standing trees infested with bark beetles. US Bur. Ent., Plant Quar. ET-299. 1952, 2 p.

Tetefort, J., Collaboration de l'aviation dans la lutte contre les acridiens migrateurs dans le Nord-Ouest de Madagascar au cors de l'année 1951. Phytoma, Paris, 5. 1952, nr. 38, p. 12—15.

Thalenhorst, W., Flugzeug und Forstschädlingsbekämpfung nach dem Kriege. Gesunde Pflanzen 4. 1952, 9—11.

Thate, R., Versuche zur Prüfung der Wirkung neuer Spritzgeräte mit Hilfe fluoreszierender Stoffe. Mitt. Biol. Zentralanst. H. 74. 1952, 145—146.

Thomas, A. M., Pest control by high-frequency electric fields — critical résumé. Techn. Rept. electr. Res. Assoc. W/T 23. 1952, 40 p., fig.

Tukey, L. D., and **Williams, O.,** A versatile sprayer for experimental purposes. Proc. amer. Soc. hortic. Sci. 59. 1952, 343—348, 3 fig.

Umhauer, H., Welche Forderungen stellt der Obstbau an seine Pflanzenschutzgeräte? Dtsch. Agrartechn. 2. 1952, 303—305.

Van de Plassche, A. W., Control of plant diseases with the aid of airplanes. Meded. Dir. Tuinbouw. 15. 1952, 51—52.

Van de Plassche, A. W., (The control of plant pests with the aid of aircraft.) Maandbl. Landbouwvoorl.-dienst, 's-Gravenhage, 9. 1952, 81—83.

Van der Zwaard, P., (Modern sprayers in floriculture.) Bloemisterij (Nederland) 36 (i. e. 26). 1952, nr. 5, p. 3.

Van Gemeren, P., (The small mist sprayer problem.) Groenten en Fruit 7. 1952, 503.

Veerman, J. A., Het nevelen in de bollen- en in de groenteteelt. (Low volume spraying in bulb-farming and market-gardening.) Meded. Dir. Tuinbouw, 's-Gravenhage, 15. 1952, 801—804, fig.

Victor und **Gentsch,** Neuzeitliche Motorenspritzen für Wein- und Obstbau. Techn. Bauern, Gärtner (Baden) 4. 1952, 377—378.

Waggoner, P. E., and **Dimond, A. E.,** Crown gall suppression by ionizing radiation. Amer. J. Bot. 39. 1952, 679—684, 1 fig.

Waggoner, P. E., and **Dimond, A. E.,** Examination of the possibility of therapy of plant disease with ionizing radiation. Phytopathology 42. 1952, 599—602.

Weick, F. E., Development of an agricultural airplane. Agric. Engin., St. Joseph (Michigan), 33. 1952, 361—364.

Weinmeister, B., Lohnt sich die Schädlings- und Unkrautbekämpfung mit Traktor-Anbaugeräten? Landmaschinenmarkt 4. 1952, nr. 2, 82—84.

Wheeler, H. E., The use of radiocarbon for tagging fungi. Phytopathology 42. 1952, 431—435, 2 fig.

Wilson, J. D., Low gallonage fungicide sprays. Agric. Chem., Baltimore, 7. 1952, nr. 2, p. 40—41.

Winner, C., Isotope als Hilfsmittel des Pflanzenschutzes in den Vereinigten Staaten von Nordamerika. Ztschr. Pfl.krankh. 59. 1952, 364—369.

Yeomans, A. H., Insecticidal aerosol generators. Proc. chem. Specialt. Manufact. Assoc. 39. 1952, 104—108.

Ein **beachtenswerter neuer Flammenwerfer.** Gartenwelt 52. 1952, 342, 1 Abb.

Dosiergerät »**Potsdam**« für die Kohlfliegenbekämpfung. Gartenwelt 52. 1952, 117, 2 Abb.

Kein lästiger Beizstaub mehr. [Zusatzgeräte] Landw. Ztschr. Nord-Rheinprov. 119. 1952, 1141.

Kleinigkeiten um den »**Sulfurator**«. Gartenwelt 52. 1952, 120, 2 Abb.

Neues Schädlingsbekämpfungsgerät. Mühle 89. 1952, 502, 1 fig.

New low-volume sprayer. A fast worker on large acreages, it is also suitable for dusting. Fruit Grower, London, 1952, 289, 1 fig.

Prüfung von Verfahren, Mitteln und Geräten für den Forstschutz. Nachr.bl. dtsch. Pfl.schutzd., Braunschweig, 4. 1952, 46.

Das **Schwingfeuer-Nebelgerät.** Gartenwelt 52. 1952, 68, 1 Abb.

Selbstfahrbare Motorspritzen. Gartenwelt 52. 1952, 73.

Symposium fog machines for dispensing insecticides. Proc. chem. Specialt. Manufact. Assoc. 39. 1952, 104—113.

e. Toxikologie der Pflanzenschutzmittel
Toxicology of parasiticides
Toxicologie des parasiticides

Aldridge, W. N., and **Barnes, J. M.,** Some problems in assessing the toxicity of the organo-phosphorus« insecticides towards mammals. Nature, London, 169. 1952, 345.

Alessandrini, M. E., e **Amormino, V.,** Ricerca del DDT nelle farine. (Bestimmung des DDT im Mehl.) Rend. Ist. super, Sanità, Roma, 14. 1951, 619—623.

Anderson, L. D., and **Tuft, T. O.,** Toxicity of several new insecticides to honey bees. J. econ. Ent. 45. 1952, 466—469.

Anderson, R. W., Klakely, R. M., and **MacGregor, H. I.,** The toxicity of aldrin for growing turkeys. Sci. Agric., Ottawa, 32. 1952, 586—591.

Appel, H., Warnung vor E 605. Bienenztg., Leipzig, 66. 1952, 301—303.

Arant, F. S., Toxicity of aldrin to chickens. J. econ. Ent. 45. 1952, 121.

Ashdown, D., Dahms, R. G., Ridgway, W. O., and **Stiles, C. F.,** Hazards in the use of parathion for greenbug control. J. econ. Ent. 45. 1952, 82—84.

Becker, E., Thalliumvergiftung. Med. Klinik, Wien, 47. 1952, 1722—1725.

Beran, F., Quantitative toxikologische Studien an synthetischen Insektiziden. Meded. Landbouwhoogesch., Opzoek. stat. Gent 17. 1952, 203—221.

Biddulph, C., Bateman, G. A., Harris, J. R., Mangelson, F. L., Lieberman, F. V., Binns, W., and **Greenwood, D. A.,** Effect of feeding methoxychlor-treated alfalfa hay to dairy cows. J. Dairy Sci. 35. 1952, 445—448.

Bidstrup, P. L., Bonnell, J. A. L., and **Harvey, D. G.,** Prevention of acute dinitro-ortho-cresol (DNOC) poisoning. Lancet, London, 262. 1952, 794—795.

Birk, L A., and **Oughton, J. G.,** Parathion residues on swede turnips. Sci. Agric., Ottawa, 32. 1952, 52—56.

Bishopp, F. C., and **Horsfall, J. L.,** The safe use of insecticides. US Dept. Agric. Yearb. Agric. 1952, 271—275.

Bittner, A., Einsperrung von Bienen während der Durchführung von Schädlingsbekämpfungsmaßnahmen. Nachr.bl. dtsch. Pfl.schutzd., Berlin, NF. 6. 1952, 52—54.

Blackaller V., A., Peligros de enveneamiento con los y precausiones para su manejo. Agrotecnia (Cuba) 7. 1952, 51—56.

Böttcher, F. K., Bienengefährliche und bienenungefährliche Pflanzenschutzmittel. Pflanzenarzt, Wien, 5. 1952, Nr. 9, S. 1—2.

Böttcher, F. K., Die Gefährdung der Bienen durch den Pflanzenschutz. Ztschr. angew. Ent. 33. 1952, 348—358.

Böttcher, F. K., Werden die Bienen durch chemische Unkrautbekämpfung gefährdet? In: Unkraut-Bekämpfung (Verlag Kommentator, GmbH., Frankfurt/M. 1952), S. 38—39.

Böttcher, F. K., Die Wirkung von U 46 auf die Bienen. Mitt. Biol. Zentralanst., Berlin-Dahlem, H. 74. 1952, 127—129.

Bowen, H. D., Hebblethwaite, P., and **Carleton, W. M.,** Application of electrostatic charging to the deposition of insecticides and fungicides on plant surfaces. Agric. Engin. 33. 1952, 347—350, 5 fig.

Campbell, A. M. G., Neurological complications associated with insecticides and fungicides. Brit. med. J., London, 4781. 1952, 415—417.

Chauvin, R., Sur la claustration des ruches. Sol, Rev. mens. Agric. (France) 71. 1952, 368—370.

Chisholm, R. D., and **Koblitsky, L.,** Testing soils for insecticide residues. Agric. Chem., Baltimore, 7. 1952, nr. 2, p. 47—49, 119.

Chlopin, N. Y., Litwinowa, N. S., and **Priwalowa, K. P.,** Polarographic determination of zinc in food products. Gigiena i Sanit. (Hyg. and Sanit.), Moskwa, 1952, nr. 4, p. 47.

Claborn, H. V. und **Beckman, H. F.,** (Methode zur Bestimmung des Insektizids 1,1,1-Trichlor-2,2- bis (p-methoxyphenyl) — äthan, (»Methoxychlor«) in Milch und Fetten.) Analyt. Chem., Washington, 24. 1952, 220.

Clark, P. J., Barr, H. E., and **Camden-Cooke, A.,** Selenium content of apples. New Zealand J. Sci., Technol (Sect. B) 34. 1952, 245—247.

Clark, P. J., Richards, E. L., Taylor, G. G., and **Jacks, H.,** DDT and arsenic residues on fruit. New Zealand J. Sci., Technol. (Sect. A) 34. 1952, 209—212.

Cleary, Th. F., A method for the analysis of cotton seed oil and cotton seed meal for residues of systox. Chemagro Corp., New York 1952.

Cottam, C., Chemical controls vs. wildlife. [toxicity of insecticides and herbicides] North Dakota Outdoors 14. 1952, nr. 12, p. 10—11.

Cottam, C., Wildlife and chemicals. [insecticides and herbicides] Tennessee Conservationist 17. 1952, nr. 7, p. 6—7, 18.

Darsie jr., R. F., Effect of DDT and lindane sprays on goldfish. Proc. Ann. Meetg. New Jersey Mosquito Extermin. Assoc. 39. 1952, 175—178.

Dautrebande, L., Physiological and pharmacological characteristics of liquid aerosols. Physiol. Rev., Baltimore, 32. 1952, 214—275.

De Bont, A. F., and De Bont Hers, M. J., Mollusc control and fish-farming in Central Africa. Nature, London, 170. 1952, 323—324.

Decker, G. C., Spray residue problems. Agric. Chem., Baltimore, 7. 1952, nr. 4, p. 67—71, 155—159.

De Mesanza, B., Los modernos insecticidas defienden al hombre. Ceres, [Valladolid], Suppl. Inform. 17. 1952, nr. 455, p. 10—11.

Doeksen, J., (Agricultural entomology and apiculture.) Meded. Dir. Tuinbouw 15. 1952, 31—33.

Dorward, K., Soil residues under cooperative study. Agric. Chem., Baltimore, 7. 1952, nr. 1, p. 71—73.

Duclos, Passage de la roténone, du S.N.P. et du DDT dans le vin provenant de vignes traitées avec ces insecticides. Phytoma, Paris, 5. 1952, nr. 37, p. 24.

Durocher, J., et **Lagneau, C.,** Sur les inconvénients que peuvent présenter en conserverie les résidus de certains produits anticryptogamiques ayant été utilisés pour le traitement des fruits. Compt. rend. Acad. Agric. France 38. 1952, 731—735.

Duspiva, F., Zentrale Stoffwechselvorgänge in ihrer Beziehung zu neuzeitlichen Insektiziden. Mitt. Biol. Zentralanst. H. 74. 1952, 93—97, 1 Abb.

Ely, R. E., Moore, L. A., Carter, R. H., Mann, H. D., and **Poos, F. W.,** The effect of dosage level and various methods of administration on the concentration of DDT in milk. J. Dairy Sci. 35. 1952, 266—271.

Enders, A., Die Kreislaufwirkung des Parathions. Arch. int. Pharmacod., Thérapie 89. 1952, 169—174.

Enders, A., and **Ruf, H.,** Die Wirkung des Parathions auf das Zentralnervensystem. Arch. int. Pharmacod., Thérapie 90. 1952, 175—184.

Eng, R. L., A two-summer study of the effects on birds populations of chlordane bait and aldrin spray as used for grasshopper control. J. Wildlife Managem. 16. 1952, 326—337.

Evenius, Bessere Aussichten für die Abwehr von Bienenschäden durch Pflanzenschutzmittel? Dtsch. Bienenw. 3. 1952, 65—66.

Evenius, Die Vergiftungsschädenversicherung. Nordwestdtsch. Imkerztg. 4. 1952, 85—86.

Ext, W., Vorsicht mit Unkrautbekämpfungsmitteln! Gartenwelt 52, 1952, 251, 3 Abb.

Faber, W., Vogelwelt und Pflanzenschutz. Pflanzenarzt, Wien, 5. 1952, Nr. 6, S. 1—2.

Fabre, R., L'emploi des toxiques en agriculture et la sauvegarde de la santé publique. Phytoma, Paris, 5. 1952, nr. 40, p. 31—32.

Fournel, J., Celice, J., and **Hillion, P.,** (Treatment of experimental poisoning caused by parathion.) Arch. Mal. prof., Paris, 13. 1952, 160—168.

Fuhrmann, R., Vorsichtsmaßregeln für den Umgang und die Verwendung giftiger Pflanzenschutzmittel. Pfl.schutzamt Sachsen-Anhalt Merkbl. Nr. 66. 1952, 3. Aufl., 5 S.

Galley, R. A. E., Problems arising from the use of chemicals in food. The toxicity of residual agricultural chemicals. Chem. and Ind. (Rev.), London, 16. 1952, 342—344.

Gatineau, M., Étude de la toxicité de la 2-chloro-4-diméthylamino-6 méthyl pyrimidine sur rats blancs et quelques animaux domestiques. (Note tonicogique nr. 11.) Ann. Épiphyties, Paris, 3. 1952, 533—538, 3 fig.

Gerebtzoff, M. A., Dallemagne, M. J., et **Philippot, E.,** L'intoxication des mammifères par l'hexachlorcyclohexane et par les produits de substitution du méso-inositol. Bull. Acad. Méd. Belg. 17. 1952, 300—332.

Gerebtzoff, M. A., et **Philippot, E.,** La réaction plasmocytaire dans l'intoxication des mammifères par le DDT et par le diphénylméthane. Experientia, Basel, 8. 1952, 395—396.

Giban, J., Saint-Leger, L., et **Gatineau, M.,** Toxicité chronique de l'hexachlorocyclohexane (HCH) à l'égard du canard. (Note toxicologique nr. 10.) Ann. Épiphyties, Paris, 3. 1952, 396—397, 1 fig.

Ginsburg, J. M., Filmer, R. S., and **Reed, J. P.,** Recovery of organic insecticides from sprayed und dusted crops. J. econ. Ent. 45. 1952, 428—431.

Gordon, H. T., Simple and fast method of determining insecticide residue on fruit. West. Fruit Grower, San Francisco, 6. 1952, nr. 6, p. 35.

Grigsby, B. H., Control of weeds hazardous to health. Proc. north centr. Weed Control Conf. 9. 1952, 90—91.

Hall, D. G., Our food supply, wildlife conservation, and agricultural chemicals. [insect control and correct use of insecticides] US Bur. Ent., Plant Quar., Washington, 1952. 9 p. — Trans. north amer. Wildlife Conf. 17. 1952, 26—33.

Hall, D. G., Pesticides in our food supply? Better Farming Methods 23. 1953, 42—43.

Hansson, A., (Can bees be protected from the danger of being poisoned by being locked up?) Bitidningen (sver.biodl. Riksförb.) 51. 1952, 176—178.

Hansson, A., (Plant protection and bee poisoning — a subject of current interest.) Nord. Bitidskr. (Norge) 4. 1952, 48—50.

Harrison, T. H., Organic pesticides, hazards to human health. Health (Austr. Dept. Health) 2. 1952, 19—21.

Hartzell, A., Bioassay of organic insecticides in processed foods. J. econ. Ent. 45. 1952, 1102.

Hartzell, A., The status of the spray residue situation in the United States. Trans. IXth int. Congr. Ent., Amsterdam, 1 (1951). 1952, 1047—1051.

Havermann, H., und **Wachter, J.,** Die Einwirkung von Schädlingsbekämpfungsmitteln auf die Leistungsfähigkeit der Hühner. Rhein. Monatsschr. Gemüse-, Obst-, Gartenbau 1952, 2.

Hayes, W. J., and **Durham, W.,** Studies of organic phosphorus insecticides poisoning. Health (Austr. Dept. Health) 1952, 231—240.

Hazleton, L. W., Pharmacology and foods, drugs, and cosmetics. [federal regulation of chemicals with special attention to insecticides] Drug, Cosmetic Ind., New York, 71. 1952, 324—325, 418—420.

Heerdt, W., Das Ziel der Schädlingsbekämpfung im gesundheitlichen Bereich. Schädlingsbekämpfung 44. 1952, 61—63.

Hendershot, B., Weed killers, poison to fish and game! North Dakota Outdoors 14. 1952, nr. 10, p. 8.

Herold, K., Giftschäden 1952; Vorarbeit für 1953. Imkerfreund, Trimbach-Olten, 7. 1952, 384—386.

Hilbrich, P., Die Einwirkung einiger insektizider und fungizider Obstbaumspritzmittel auf das Geflügel. II. E 605 f bei Wassergeflügel, Fuclasin und Selinon. Nachr.bl. dtsch. Pfl.schutzd., Braunschweig, 4. 1952, 44—45, 1 Abb.

Hilbrich, P., Die Einwirkung von E 605 forte und Selinon auf das Geflügel. Höfchen-Briefe, Leverkusen, 5. 1952, 36—40, 1 Abb.

Hisanaga, M., (Poisoning caused by organic phosphorous insecticide occured at Shizuoka Prefecture.) J. Plant Prot., Tokyo, 36. 1952, 247—248.

Hodge, H. C., and **Maynard, E. A., Downs, W., Blanchet jr., H. J.,** and **Jones, C. K.,** Acute and shortterm oral toxicity tests of ferric dimethyldithiocarbamate (ferbam) and zinc dimethyldithiocarbamate (ziram). J. amer. pharmac. Assoc. (sci. ed.) 41. 1952, 662—665.

Holenstein, R., Bienensterben infolge unsachgemäßer Anwendung von Ungeziefer-Bekämpfungsmitteln. Schweiz. Bienenztg., Aarau, 75. 1952, 444—445.

Hopkins, L., Norton, L. B., and **Gyrisco, G. G.,** Persistence of insecticide residues on forage crops. J. econ. Ent. 45. 1952, 213—218, 1 fig.

Hornig, Pflanzenschutz und Hühnerhaltung. Beeinträchtigen Obstbaumspritzungen in Hühnerausläufen die Leistungsfähigkeit der Hühner? Bauernbl. Schlesw.-Holst. 6./102. 1952, 323.

Hoyt, A. S., Insecticides and wildlife. NAC News (nat. agric. Chem. Assoc.) 10. 1952, nr. 4, p. 3.

Hubert, K., Rededisposition zur Frage Schädlingsbekämpfung und Bienenschutz. Pfl.schutzamt Sachsen-Anhalt Merkbl. Nr. 70. 1952, 2. Aufl., 4 S.

Hunold, G. A., Über die gesundheitliche Bedeutung und Verwendung organischer Lösungsmittel in der Schädlingsbekämpfung. Schädlingsbekämpfung 44. 1952, 141—147.

Jacks, H., Health aspects of plant therapeutants. New Zealand J. Agric. 85. 1952, 70, 71, 73, 75, 77—80, 9 fig.

Jantzen, G., Akute Vergiftung mit dem Schädlingsbekämpfungsmittel E 605. Arch. Toxikol. 14. 1952, 165—170.

Johnsen, P., (On some sprays and bees.) Erhvervsfrugtavleren, Odense (Danmark), 18. 1952, 214—216.

Johnston, J. M., and **Batchelor, G. S.,** US Public Health Service men carry on a constant study of agricultural chemicals to help growers guard against toxic sprays. [insecticides] West. Fruit Grower, San Francisco, 6. 1952, nr. 2, p. 27—29.

Jolly, D. W., La toxicidal del DDT y del gamexan para los animales domésticos. Campesino, Santiago, 84. 1952, nr. 5, p. 7, 9—11, 13, 15.

Jolly, D. W., The toxicity of DDT and BHC for domestic animals; a review. Vet. Rec., London, 64. 1952, 76—81.

Jordan, R., Schach den Schädlingsbekämpfungsmitteln. Österr. Imker 2. 1952, 47—50.

Kasting, R., and **Harcourt, D. G.,** Parathion residues of cauliflower heads after spraying. Sci. Agric., Ottawa, 32. 1952, 299—303.

Kirby, A. H. M., and **Bennett, M.,** Spray damage investigations in 1949—51. East Malling Res. Stat. Ann. Rept. 1951. 1952, 183—186, 1 tab. geogr.

Klendshoj, N. C., Moran, W. G., Feldstein, M. and **Fidler, H. E.,** Poisoning from tetraethylpyrophosphate (TEPP). J. amer. med. Assoc. 149. 1952, nr. 11, p. 1015.

Klett, Schädlingsbekämpfungsmittel und Bienen. Württ. Wochenbl. Landw. 119. 1952, 412.

Klose, F., Steiniger, F., und **Schürmann, R.,** Die Vergiftungsgefahr bei der Methylbromid-Durchgasung. Mitt. Biol. Zentralanst. H. 74. 1952, 111—116, 2 Abb.

Knight, G. F., Pesticides by inhalation — a warning. Mod. Nutrit. (amer. Acad. appl. Nutrit.) 5. 1952, nr. 6, p. 4—5.

Knight, G. F., What are pesticides doing to human beings? Mod. Nutrit. (amer. Acad. appl. Nutrit.) 5. 1952, nr. 9, p. 11—16.

Krauss, J., Pflanzenschutz und Bienenzucht. Imkerfreund, Trimbach-Olten, 7. 1952, 351—352.

Krister, C. J., Residues of dithiocarbamate fungicides on food crops. Agric. Chem., Baltimore, 7. 1952, nr. 9, p. 45—48.

Landbeck, F., Imkerei und Pflanzenschutz. Dtsch. Bienenztg. 7. 1952, 112—113.

Leland, S. J., Some observations on the toxicology of lindane. [toxicity to man] Proc. Mid-Year Meetg. chem. Specialt. Manufact. Assoc. Off. 38. 1952, 110—112.

Leopold, O., Hinter uns die Sintflut! Österr. Imker. 2. 1952, 75—76.

Lensky, P., and **Evans, H. L.,** Human poisoning by chlordane, report of a case. J. amer. med. Assoc. 149. 1952, 1394—1395.

Locker, A., und **Siedek, H.,** Zur Frage der durch Lebergewebe bewirkten Umwandlung von Pestox III in einen aktiven Cholinesterase-Inhibitor. Monatsh. Chemie 83. 1952, H. 2.

McGee, L. C., Reed, H. L., and **Fleming, J. P.,** Accidental poisoning by toxaphene. J. amer. med. Assoc. 149. 1952, 1124—1126.

Mallach, N., Schädlingsbekämpfung mit chemischen Mitteln und Bienenzucht. Bayer. Landw.verlag, München, [1952.] 52 S.

Malucelli, P., Azione del Gesarol sugli allevamenti del baco da seta. (Effects of Gesarol on the silkworm cultures.) Ann. Sperim. agr., Roma, 6 (n. ser.). 1952, 1497—1505.

Marquardt, P., Besteht, nach Lindane-Anwendung zur Bekämpfung von Getreideschädlingen, eine Vergiftungsgefahr für den Brotkonsumenten? Mühle 89. 1952, 700—701.

Martin, J. T., Problems arising from the use of chemicals in food. Agricultural spray residues. Fungicides. Insecticides. Weedkillers and growth regulators. Chem. and Ind. (Rev.), London, 16. 1952, 345—347, 347—348, 348—349.

Melis, A., (Necessity for cautious use of insecticides for the protection of plants and agricultural products used in the agricultural industries.) Relaz. Congr. int. ind. Agr. (Italia) 9. 1952, nr. 1, p. 415—430.

Michaelis, P., Gesundheitsgefahren bei der Schädlingsbekämpfung. Anz. Schädl.kunde 25. 1952, 161—166.

Mills, H. R., Death in the Florida marshes. [DDT] Audubon Mag., Harrisburg, 54. 1952, 285—291.

Mommers, J., (Fruit culture and apiculture.) [toxicity of insecticides and fungicides to bees] Fruitteelt, Arnhem, 42. 1952, 242.

Monticelli, F., (Bees, pronubial insects, and insecticides in fruit culture.) [damage to bees through use of insecticides] Coltiv., Giorn. vinic. ital., Casale Monferrato 98 (n. ser.). 1952, 325—326.

Orr, R. T., Insecticides in food plants. Proc. Mid-Year Meetg. chem. Specialt. Manufact. Assoc. Off. 38. 1952, 93—94.

Pearce, G. W., Mattson, A. M., and **Hayes jr., W. J.,** Examination of human fat for the presence of DDT. Science, Lancaster, 116. 1952, 254—256, 1 fig.

Peoples, S. A., Quantitative determination of gamma hexachlorcyclohexane in animal tissue. Proc. Fed. amer. Soc. exp. Biol. 11. 1952, 382.

Petersen, H. I., Disadvantages and hazards connected with the use of chemical herbicides. Tidsskr. Landøkon., København, 3. 1952, 121—132.

Pfannenstiel, W., Besteht nach Lindane-Anwendung zur Bekämpfung von Getreideschädlingen eine Vergiftungsgefahr für den Brotkonsumenten? Mühle 89. 1952, 33—34.

Pfannenstiel, W., Die chronischen Giftwirkungen des technischen Hexachlorcyclohexan und seiner Alpha-, Beta- und Gamma-Isomeren. (Ref.) Schädlingsbekämpfung 44. 1952, 120—122.

Pfannenstiel, W., Pharmakologische Betrachtungen über Insektenvertilgungsmittel. (Ref.) Schädlingsbekämpfung 44. 1952, 119—120.

Pfleiderer, Achtet auf den Bienenschutz! Landw. Ztschr. Nord-Rheinprov. 119. 1952, 262.

Piskowoj, F. R., (On protecting honeybees from poisoning.) Pchelovodstvo (USSR) 29. 1952, nr. 12, p. 31—32.

Poppius, E., (Parathion hazards.) Lantmannen, [Uppsala], 36. 1952, 559.

Porter, B. A., and **Fahey, J. E.,** Residues on fruits and vegetables. US Dept. Agric. Yearb. Agric. 1952, 297—301.

Post, G., The effects of aldrin on birds. J. Wildlife Mangagem. 16. 1952, 492—497.

Princi, F., Toxicology and hazard record of the newer pesticides. Agric. Chem., Baltimore, 7. 1952, nr. 1, p. 44—47, 97—103.

Przygodda, W., Sind Vögel durch Pflanzenschutzmittel gefährdet? Gesunde Pflanzen 4. 1952, 169—173.

Radeleff, R. D., Bushland, R. C., and **Claborn, H. V.,** Toxicity to livestock. [insecticides] US Dept. Agric. Yearb. Agric. 1952, 276—283, 1 fig.

Raman, C. A., (Insect control and bee death.) Lantmannen, [Uppsala], 36. 1952, 674—675.

Reisinger, Jagdschutz und Pflanzenschutz [Wildschaden durch Gebrauch von Insektiziden] — eine grundsätzliche Stellungnahme. Kärntner Bauer (Österr.) 102. 1952, 91—92.

Rieck, W., Die Wirkung von »Castrix«-Giftkörnern auf Wild. Höfchen-Briefe, Leverkusen, 5. 1952, 217—220.

Rosella, E., Le danger d'être entrepreneur de traitements lorsqu'il y a brûlures, accidents de travail ou échecs à la suite de traitements antiparasitaires. Phytoma, Paris, 5. 1952, nr. 34, p. 21—22.

Rowe, V. K., Health hazards associated with handling and use of herbicides. Agric. Chem., Baltimore, 7. 1952, nr. 2, p. 42—45, 110—111, 113.

Rowe, V. K., Spencer, H. C., McCollister, D. D., Hollingsworth, R. L., and **Adams, E. M.,** Toxicity of ethylene dibromide determined on experimental animals. Arch. ind. Hyg., occup. Med., Baltimore, 6. 1952, 58—173.

Santos, E., (Many beneficial birds are destroyed in the struggle against the pests of husbandry.) Fauna São Paulo, 11. 1952, nr. 7, p. 19—20.

Sbarra, N. H., El DDT y la salud publica. [physiological action and precautions in handling] Chacra, Buenos Aires, 22. 1952, nr. 255, p. 65.

Schmid, S., Bienen und Schädlings-Gifte. Kärtner Bauer (Österr.) 102. 1952, 261—263.

Schmidt, H. W., Was sagt der Imker zu den modernen Insekten-Berührungsgiften? Nordwestdtsch. Imkerztg. 4. 1952, 154—156.

Schneider, R., Kartoffelkäferbekämpfung? Ja, aber keine Bekämpfung der Honigbiene. Hess. Biene 88. 1952, 176—177.

Schreier, O., Giftgetreide und Nutzvögel. Pflanzenarzt, Wien, 5. 1952, Nr. 10, S. 1—2.

Schreier, O., Rapsglanzkäferbekämpfung — eine Gefahr für die Bienen? Pflanzenarzt, Wien, 5. 1952, Nr. 3, S. 2.

Schreuder, J. E., and **deWilde, J.,** Analysis of the dyspnoeic action of carbon dioxide in the cockroach (Periplaneta americana L.) (with some remarks on the honey bee, Apis mellifica L.). Physiol. comp., Oecol., Den Haag, 2. 1952, 355—361.

Schussler, Bienenschäden bei der Maikäferbekämpfung. Dtsch. Bienenw. 3. 1952, 167—174.

Schussler, Haftung der Gemeinden für Giftschäden durch Maikäferbekämpfung. Dtsch. Bienenwirtschaft 3. 1952, 92—93.

Schwerd, W., und **Schmidt, G.,** Einfache Schnellreaktion im Blut zum Nachweis von Vergiftungen mit dem Schädlingsbekämpfungsmittel E 605. Dtsch. med. Wochenschr. 77. 1952, 372—373.

Sewastjanow, W. D., (Effect of growth substances on increase and development of honeybees.) [Heteroauxin and 2, 4-D in honeybee nutrition] Pchelovodstvo (USSR) 29. 1952, nr. 3, p. 28—30.

Shenefelt, R. D., Residual effect of chlordane on crabgrass when applied to lawn for control of sod webworm. J. econ. Ent 45. 1952, 138—139, 895.

Shepard, H. H., Regional idstribution of pesticides used in crop years 1949—50 and 1950—51. Agric. Chem., Baltimore, 7. 1952, nr. 7, p. 28—30.

Siegler, E. H., Residual toxicity of some organic insecticides to Japanese beetles. J. econ. Ent. 45. 1952, 449—451.

Sloan, G. D., ABC's of safety in fumigating a house with methyl bromide. Pest Control, Ohio, 20. 1952, nr. 8, p. 20—28.

Smith, F. F., Edwards, F. I., Giang, P., and **Fulton, R. A.,** Residues of organic phosphorus compounds and DDT on greenhouse vegetables. J. econ. Ent. 45. 1952, 703—707.

Starcke, A., (Insects and man.) [toxicity of insecticides] Ent. Ber., Amsterdam, 14. 1952, nr. 319, p. 3—6.

Steiniger, F., Über die Giftigkeit des Actosin-Wirkstoffs für Haustiere. Nachr.bl. dtsch. Pfl.schutzd., Braunschweig, 4. 1952, 149—153.

Stoldt, W., Buchweizenmehl giftig? Dtsch. Lebensm.-Rundschau, Nürnberg, 48. 1952, 206—207.

Stoner, H. B., Threlfall, C. J., and **Green, H. N.,** The effect of 3:5-dinitro-ortho-cresol on the organic phosphates of muscle. Brit. exp. Path. 33. 1952, 398—404.

Stute, K., Diesjährige Erfahrungen bei der Feststellung von Bienenschäden durch Maßnahmen des Pflanzenschutzes. Mitt. Biol. Zentralanst. H. 74. 1952, 130—133.

Stute, K., Erfahrungen bei der Ermittlung von Bienenvergiftungen. Leipziger Bienenztg. 66. 1952, 53—55.

Stute, K., Untersuchungsergebnisse über die Bienenschäden 1952. Dtsch. Kleintier-Züchter 7. 1952, Nr. 23, S. 9—10.

Swensson, Å., Investigations on the toxicity of some organic mercury compounds which are used as seed desinfectants. Acta med. scand., Stockholm, 143. 1952, 365—384.

Telander, G., (Heavy poison fog prevents bee death.) Bitidningen (sver. biodl. Riksförb.) 51. 1952, 164—165.

Thiem, H., Vom sachgemäßen chemischen Pflanzenschutz zum wirksamen Bienenschutz. Südwestdtsch. Imker 4. 1952, 76—78.

Thienes, C. H., Meredith, O. M., Prescott, E., and **Parsons, J.,** Lack of toxicity of parathion spray residue in orange peel and juice. Proc. Fed. amer. Soc. exp. Biol. 11. 1952, 397.

Tielecke, H., Bienengefährdung durch Pflanzenschutzmittel. Dtsch. Landw. 3. 1952, 148—150, 1 Abb.

Tilemans, E., Toxicité des produits phytopharmaceutiques et précautions à prendre. Rev. Agric., Bruxelles, nr. 3. 1952, 199—205.

Tilemans, E., et **Dormal, S.,** Toxicité des produits phytopharmaceutiques envers l'homme et les animaux à sang chaux. (Die Giftigkeit der phytopharmazeutischen Produkte in Bezug auf den Menschen und die Tiere.) Parasitica, Gemblouse, 8. 1952, 64—91. — Meded. Landbouwhoogesch., Opzoek. stat. Gent 17. 1952, 134—156.

Todd, F. E., and **McGregor, S. E.,** Insecticides and bees. US Dept. Agric. Yearb. Agric. 1952, 131—135.

Tornow, E., Nachweis von Gift und Unkraut im Getreide und Mehl. Th. Steinkopff, Dresden und Leipzig 1952, 56 S., 10 Taf.

Toudoire, Les oléagineux et l'apiculture. Gaz. apic., Montfavet, 53. 1952, 171—178.

Trappmann, W., Die Schädlichkeit der Getreide-Einstäubemittel. Mühle 89. 1952, 498.

Turner, H. F., and **Eden, W. G.,** Toxicity of chlordane to chickens. J. econ. Ent. 45. 1952, 130.

Ueda, K., Ishido, Y., Sakaino, S., Takahashi, T., and **Takada,** (Some problems on toxity of organic phosphorous insecticides to man.) J. Plant Prot., Tokyo, 42. 1952, 463—468.

Van Luijt, P. A., Algemene waaschuwing bij het gebruik van bestrijdingsmiddelen. Tiunbouwgids, Den Haag, 1952, 223.

Van Luijt, P. A., Eerste hulp bij vergiftiging door bestrijdingsmiddelen. Tuinbouwgids, Den Haag, 1952, 223.

Vanterpool, T. C., The problem of ergot in feed and seed. Saskatschewan Univ. agric. Ext. Bull. 108. 1952, 3 p.

Vivani, W., (Control of weeds an important factor in agricultural progress.) Coltiv., Giorn. vinic. ital., Casale Monferrato, (n. ser.) 98. 1952, 290—291.

Waldman, R. K., Some insecticides toxic to man. Connecticut Health Bull. 66. 1952, 179—181.

Walters, C. S., The effect of cooper naphthenate and pentachlorophenol on livestock. Proc. amer. Wood Preserv.' Assoc. 48. 1952, 302—313.

Ward, J. C., Safety in the use of pesticides. Pest Control, Ohio, 20. 1952, 9—10, 12, 20.

Weaver, N., The toxicity of organic insecticides to honey bees. J. econ. Ent. 45. 1952, 537—538, 1 fig.

Wene, G. P., Burdick, E. M., and **Otey, G. W.,** Benzene hexachloride contamination in processed tomatoes and turnip greens. Proc. 6th Ann. Rio Grande Valley hortic. Inst. 1952, 73—74.

Wentzel, F., Aufklärung über Anwendung der Pflanzenschutzmittel tut not! Nordwestdtsch. Imkerztg. 4. 1952, 86—88.

Wilbur, D. A., Effects of insecticidal dusts containing piperonyl butoxide and pyrethrins applied to wheat on the flavor of eggs. J. econ. Ent. 45. 1952, 899.

Wrench, P. G., Parathion tests needed under varying local conditions of improved forms which reduce health hazards. Citrus News 27. 1952, 170, 179.

Yamamoto, T., (Toxicities and antidotes of organic phosphorous insecticides.) J. Plant Prot., Tokyo, 34. 1952, 169—170.

Zeumer, H., Chemischer Nachweis von DDT und Hexa in Getreide und Mehl vor und nach der Reinigung. Mühle 89. 1952, 501—502.

Zeumer, H., Geschmacksbeeinflussung durch Hexa-Präparate. Mitt. Biol. Zentralanst. H. 74. 1952, 122—125.

Bienenschutz — Pflanzenschutz. Pflanzenarzt, Wien, 5. 1952, Nr. 5, S. 2—3. — Obst- u. Gartenbau, Stuttgart, 7. 1952, 93—94.

5 year DDT residue. Agric. Chem., Baltimore, 7. 1952, nr. 9, p. 71.

Fire and explosion hazards of thermal insecticidal fogging. NBFU (Nat. Board Fire Underwriters), Boston (Mass.), Res. Rept. 9. 1952, 45 p.

50 Jahre Bundesanstalt für Pflanzenschutz. Tagung des Pflanzenschutzdienstes. Giftige Pflanzenschutzmittel, Bienen und Wild. Obst- u. Gartenbau, Stuttgart, 7. 1952, 14—15.

Gärhemmungen durch Spritzmittel? Schweiz. Ztschr. Obst-, Weinbau 61. 1952, 504—505.

Mit Pflanzenschutzmitteln vorsichtig umgehen! Landw. Wochenbl. Kurhessen, Waldeck 167. 1952, 760.

Schutzmasken für die Spritzarbeiten. Schweiz. Ztschr. Obst-, Weinbau 61. 1952, 494—496, 4 Abb.

Vorsicht bei der Schädlingsbekämpfung. Rhein. Bauernztg. 6. 1952, 413.

3. Förderung und Organisation des Pflanzenschutzes
Advancement and organization of the plant protection
Avancement et organisation de la protection des plantes

Alvarez, V., Direccion de estaciones experimentales. (The agricultural experimental stations [in Cuba].) Rev. Agric., Habana, 35. 1951/52, nr. 1, p. 56—77, fig.

Beran, F., Internationale Maßnahmen zur Bekämpfung des Weißen Bärenspinners. Pflanzenarzt, Wien, 5. 1952, Nr. 4, S. 2.

Beran F., Pflanzenschutz in den USA. Pflanzenarzt, Wien, 5. 1952, Nr. 8, S. 2—3, 3 Abb.; Nr. 11, S. 4—5, 3 Abb. — Österr. Produktivitäts-Zentrum, Wien, 1952, 91 S.

Blumer, S., Sektion Pflanzenschutz. Schweiz. Ztschr. Obst-, Weinbau 61. 1952, 330—334, 3 Abb.

Böning, K., Aufgaben des Pflanzenschutzes in Bayern. Pflanzenschutz, München, 4. 1952, 71—74.

Drees, H., 50 Jahre Pflanzenschutz in Bayern. Gesunde Pflanzen 4. 1952, 310—311.

Drees, H., Pflanzenschutz in Skandinavien. Gesunde Pflanzen 4. 1952, 287—289, 2 Abb.

Drees, H., Pflanzenschutz und Staat. Mitt. Biol. Zentralanst. H. 74. 1952, 5—6.

Drees, H., Zur Geschichte internationaler Pflanzenschutzkonventionen. Gesunde Pflanzen 4. 1952, 166—167.

Eickstedt, H. v., Pflanzenschutz in USA. Landtechnik 7. 1952, 417—421.

Erkılıç, S., Dünya haberleşme servisi. (World reporting service.) Bitki Koruma Bült. (Bull. Plant Prot.), Ankara, 1952, nr. 4, p. 3—6.

Esther, H., Gesundheit und Leistungssteigerung; Erhöhung und Sicherung der Erträge; Verbesserung des Lebensstandards durch Schädlingsbekämpfung und Pflanzenschutz. Ernährg. Pflanze 3. 1952, 150—156.

Ext, W., 25 Jahre Pflanzenschutzdienst in Schleswig-Holstein. Pfl.schutzamt Kiel [1952], 8 S.

Frézal, P., Rapport sur l'activité de la Mission Française de Protection des Végétaux (E.C.A. 38—93) aux États-Unis. Bull. Soc. Agriculteurs Algérie 96. 1952, 179—187.

Gassner, J. K., Wo hole ich mir Rat beim Auftreten unbekannter Pflanzenkrankheiten? Gartenwelt 52. 1952, 66.

Hagan, A. B., Our county weed control program, organization and accomplishments. Proc. north centr. Weed Control Conf. 9. 1952, 82.

Haltmeier, Der Ständige Ausschuß für Vorratshaltung und Schädlingsbekämpfung. Mühle 89. 1952, 328—329.

Handford, R. H., The Dominion Field Crop Insect Laboratory and its work, Vernon, 1918—1938, and Kamloops, 1939—1950. Proc. ent. Soc. brit. Columbia 48. 1952, 31—33.

Hoffmann, M., Wie holt man sich Rat und Auskunft über Pflanzenkrankheiten und Schädlinge? Pfl.schutz amt Sachsen-Anhalt Merkbl. Nr. 76. 1952, 6 S.

Hubert, K., Maßnahmen zur Schulung der Pflanzenschutzmitarbeiter notwendig. Dtsch. Landw. 3. 1952, 534—537.

Inman, W. D., The role of the farm press in better weed control. Proc. north centr. Weed Control Conf. 9. 1952, 50.

Keilbach, R., Fachkunde für Schädlingsbekämpfung. Volk und Wissen, volkseigener Verlag, Berlin, 1952, 211 S., 290 Abb.

Kerling, L. C. P., De nederlandse plantenziektenkundige Vereniging. Tijdschr. Plantenziekten 58. 1952, 28, 1 fig.

Kirchberg, E., Organisation und Aufgabengebiete der Schädlingsbekämpfung in den USA. (Ergebnisse einer Studienreise 1951. II.) Schädlingsbekämpfung 44. 1952, 87—92.

Laverty, C. O., Service organizations' part in a planned brush control program. Proc. north centr. Weed Control Conf. 9. 1952, 65—67.

Lean, O. B., International co-operation in pest control. J. R. agric. Soc., London, 113. 1952, 81—85.

Leib, E., Pflanzenschutz und landwirtschaftliche Praxis. Schwerpunkte künftiger erzieherischer Arbeit. Gesunde Pflanzen 4. 1952, 2—5.

Maheux, G., The Quebec Agricultural Research Council. Proc. Canada nat. Weed Comm., East. Sect., 5 (1951). 1952, 1—5.

Marchionatto, J. B., Semana de defensa sanitaria de la ducción vegetal. Almanaque Minist. Agric., Ganad., Buenos Aires, 26/27. 1951/1952, 321—322.

Özkan, M., Almanya'da bitki koruma teşkilâti. (Organisation des deutschen Pflanzenschutzes.) Bitki Koruma Bült. (Bull. Plant Prot.), Ankara, 1952, nr. 2, p. 7—15.

Petersen, H. I., Årsoversigt for Statens Ukrudtsforsøg 1951. (The Danish Institute for Weed Research. 1951.) Tidsskr. Planteavl, København, 55. 1952, 723—729.

Petrik, A., (Le service phytosanitaire dans la Voivodine.) Saschtita Bilja (Plant Prot.), Beograd, nr. 10. 1952, 85—94.

Rao, V. P., Progress in plant protection in India. FAO Plant Prot. Bull. 1. 1952, 11—16.

Reinke, H., Maßnahmen zur Schulung der Pflanzenschutzmitarbeiter notwendig. Dtsch. Landw. 3. 1952, 373—374.

Reisinger, 50 Jahre österreichischer Pflanzenschutz. Kärntner Bauer (Oesterr.) 102. 1952, 58—59.

Schaper, P., Neue Ergebnisse des praktischen Pflanzenschutzes. Saatgut-Wirtschaft, Stuttgart, 4. 1952, 280—282.

Schiffel, M., Die pausenlose Schädlingsbekämpfung in Sachsen. Schädlingsbekämpfung 44. 1952, 35—37.

Seidel, Pflanzenschutz erhöht Qualität. Zentralbl. dtsch. Erwerbsgartenbau 4. 1952, Nr. 21, S. 2.

Sempio, C., (The plant pathology in the USA.) Ricerca sci., Roma, 22. 1952, 615—636.

Speyer, W., Die Pflanzenschutzforschung in Schleswig-Holstein. Schlesw.-holstein. Mon.hefte Heimat u. Volkstum, März 1952, 3 S., 5 Abb.

Strobel, W., Schädlingsbekämpfung — ein Baustein in der Landschaftsgestaltung. Zentralbl. dtsch. Erwerbsgartenbau 4. 1952, Nr. 37, S. 4.

Suzuki, N., (Recent aspects of phytopathology.) (Biol. Sci.), Tokyo, 4. 1952, 167—171.

Thomson, A. G., Information service for plant pathologists. New Commonwealth (England) 24. 1952, 8—9.

Tipler, R. V., British Mycological Society: plant pathology field day. Nature, London, 170. 1952, 409—410.

Topalović, G., (Reorganization of the antiperonospora service in Vojcodina is needed. Vojvodanski Poljoprivrednik (Jugoslavija) 8. 1952, nr. 16, p. 3—5.

Topalović, G., The 3-year-work of the Anti-Peronospora Station in Sremski Karlovci. Vojvodanski Poljoprivrednik (Jugoslavija) 8. 1952, nr. 13, p. 22—24.

Van Orshoven, H., Pflanzenschutz als europäische Aufgabe. Pflanzenschutz, München, 4. 1952, 69—70.

Weber, A., Phytopathologie en praktijk in Denemarken. (Phytopathology and practice in Denmark.) Tijdschr. Plantenziekten 58. 1952, 209—214, 2 fig.

Wilkins, V. E., (Europa und der Pflanzenschutz.) Gesunde Pflanzen 4. 1952, 113—114.

Winton, C., Coordination of the work between regulatory people of the States and provinces of Canada. Proc. north centr. Weed Control Conf. 9. 1952, 85—86.

Çekirge mücadele araştirma merkezi çöl çekirgesi durumu (Özet No. 26). (The activities of Anti-locust Research Centre.) Bitki Koruma Bült. (Bull. Plant Prot.), Ankara, 1952, nr. 2, p. 4—6.

Fitopatologia senza confini. Inform. Fitopat., Bologna, 2. 1952, Suppl. nr. 5, p. 1—2, 1 fig.

Opportunita' e fini della Societa' Italiana di Fitoiatria. (Oppornunity and finality of the Italian society of phythyatry (S. I. F.).) Not. Mal. Piante nr. 20. 1952, 42—43.

Organisation Européenne pour la Protection des Plantes: Activités en cours 1951. Paris 1952, 19 p.

Die **Pflanzenschutzämter.** Gartenwelt 52. 1952, 66.

Pflanzenschutz in Griechenland. Gesunde Pflanzen 4 1952, 268.

Pflanzenschutz-Kursus. 22. Kartoffel- oder Coloradokäfer. 23. Kartoffelkrebs. 24. Kartoffelschorf. 25. Wurzelbrand der Rübe. 31. Rüben- oder Bohnenblattlaus. 32. Rübenälchen. 33. Rapsglanzkäfer. 34. Kleekrebs. Pflanzenarzt, Wien, 5. 1952, Nr. 8, S. 10—11, Nr. 12, S. 6—7.

Plant protection work in Hyderabad State during 1951—52. Plant Prot. Bull., New Delhi, 4. 1952, nr. 2, p. 32—33.

Proposed amendment to the constitution of the American Phytopathological Society. Phytopathology 42. 1952, 366.

Study group reports on USDA programs for insect and plant disease control. Agric. Chem., Baltimore, 7. 1952, nr. 4, p. 51, 117.

4. Gesetzgebung und Verwaltung im Pflanzenschutz
Legislation and administration of plant protection
Législation et administration pour la protection des plantes

Bishopp, F. C., Issues involved in pesticide legislation. Agric. Chem., Baltimore, 8. 1952, nr. 2, p. 31—33, 137—139.

Boyd, W. M., Laws, rules and regulations governing the shipment of nursery stock out of New Jersey. New Jersey Dept. Agric. Circ. 386. 1952, 66 p.

Brock, A. A., Problems in agricultural law enforcement. Calif. Fruit News, San Francisco, 125. 1952, nr. 3335, p. 5, 10—11.

Cormack, R. M. M., General impressions of conservation practices and policy in the USA. Good Husb. (South Rhodesia) 2. 1952, nr. 10, p. 8—9.

Decker, G. C., Legislative control of pesticide use. J. econ. Ent. 45. 1952, 140—144.

Du Marchie Sarvaas, F., Wettelijke voorschriften plantenziekten en plantenuitvoer. Tuinbouwgids, Den Haag, 1952, 218—220.

Dunbar, P. B., Insecticides and the pure food law. US Dept. Agric. Yearb. Agric. 1952, 314—316, 1 fig.

Gilbert, C., Pending weed control legislation. Proc. north centr. Weed Control Conf. 9. 1952, 87.

Griffin, E. L., Federal insecticide act. Soap, sanit. Chem. 28. 1952, 122—123, 143.

Kawai, S., (Revision of the law of exterminating and preventing destructive forest insects and diseases and control schedules for 1952.) J. Plant Prot., Tokyo, 36. 1952, 241—246.

Lemmon, A. B., State pesticide laws. US Dept. Agric. Yearb. Agric. 1952, 302—310.

Niemann, Was ist aus dem Waldschutzgesetz vom 31. März 1950 und seinen Durchführungsverordnungen sowie ergänzenden Ministerialerlassen für den bäuerlichen Waldbesitzer besonders wichtig? Landw. Wochenbl. Westf., Lippe 109 A. 1952, 652, 657.

Reed, W. G., The federal act of 1947. [insecticides] US Dept. Agric. Yearb. Agric. 1952, 310—314.

Rohrbach, H., Wissenswertes über die amtlichen Bestimmungen betr. die Einfuhr von Pflanzen in die USA. Dtsch. Baumsch. 4. 1952, 338—339.

Samkalden, L., Attendence to collective interests in agrarian legislation. Veenman, Wageningen 1952. 18 p.

Schoel, W., Kurze Zusammenstellung der Pflanzenschutzbestimmungen für die Einfuhr von Pflanzen, Pflanzenteilen und Pflanzenerzeugnissen in die Bundesrepublik. Gesunde Pflanzen 4. 1952, 206—208, 210.

Schoel, W., Neuordnung der zollamtlichen Abfertigungsbefugnisse für Pflanzen, Pflanzenteile und pflanzliche Erzeugnisse. Gesunde Pflanzen 4. 1952, 230—231.

Sherman, R. W., Summary of federal plant regulatory legislation. US Dept. Agric. Yearb. Agric. 1952, 747, 1 fig.

Sterling, G. R., Application of Canadian weed control legislation. Proc. north centr. Weed Control Conf. 9. 1952, 82—85.

Turner, S. W., Aerial sprays and the law. [2, 4-D] West. Fruit Grower, San Francisco, 6. 1952, nr. 2, p. 30.

Woodforde, A. H., The Noxious Weeds Act, 1938 — additional weeds proclaimed. Tasmanian J. Agric. 23. 1952, 19—24.

Canada Department of Agriculture. Consolidated and revised regulations of the Destructive Insect and Pest Act. 1949, 10 p.

The destructive insects and pests act, 1914 (Act No. II of 1914). (As modified up to the 1st April, 1952.) India Ministry Law (Manager of Publ., Delhi) 1952, 4 p.

Statutory Instruments, 1949: No. 1692. Destructive Insect and Pest Acts, England. The Importation of Forest Trees (Prohibition) Order of 1949. No. 1693. Destructive Insect and Pest Acts, England. The Importation of Plants (Amendment) Order of 1949. 1949, 2. 1 p.

5. Statistik über die Verbreitung von Pflanzenkrankheiten und Schädlingen (Kosten und Rentabilität)

Statistics of the incidence of plant diseases and parasites (costs and profitableness)

Statistique de la fréquence des maladies végétales et de leurs parasites (frais et avantage)

Czech, M., Pflanzenschutzmittelpreise kritisch betrachtet. Mitt. dtsch. Landw.-Ges., Frankfurt/M., 67. 1952, 283—284.

Haeussler, G. J., Losses caused by insects. US Dept. Agric. Yearb. Agric. 1952, 141—146.

Hanf, W., Verluste durch Pflanzenseuchen. Umfang von Maßnahmen zur Abwehr. Gesunde Pflanzen 4. 1952, 160—165.

Hitchner, L. S., Pest control research costs and results. Cotton Gin, Oil Mill Press, Dallas (Texas), 53. 1952, nr. 5, p. 110, 112.

Jancke, O., Richtige Prognosen ersparten dem Weinbau der Pfalz Millionenbeträge! Gesunde Pflanzen 4. 1952, 274—277, 1 Abb.

L'Estrange, J. A., Weeds rob Union of £ 27 000 000 a year. Veldtrust 13. 1952, nr. 6, p. 18—19, 30.

Marescalchi, C., (Price of copper sulfate in relation to that of wine.) Agenzia rom. Note, Inform. agric. (Italia) 5. 1952, nr. 4, p. 1—2.

Mehlisch, K., Die Unkosten der Schädlingsbekämpfung. Zentralbl. dtsch. Erwerbsgartenbau 4. 1952, Nr. 36, S. 1, 7.

Messenger, K., and **Popham, W. L.,** From 0 to 5 000 in 34 years. US Dept. Agric. Yearb. Agric. 1952, 250—251.

Øhlers, H., (Cost per 1000 liters of sprays of various kinds, etc., used in fruit culture.) Erhvervsfrugtavleren, Odense (Danmark), 18. 1952, 152—155.

Ordish, G., Untaken harvest. [crop losses by insects, fungi, viruses, bacteria ect.] Constable & Co., Ltd., London 1952. xii + 171 p., 5 fig.

Pollak, S. W., Food we never eat. [food losses through plant injuries and pests] New Statesman and Nation (England) 44. 1952, 442—443.

Russel E. J., Wastage of world food supplies through diseases and pests. Shropshire, surround. Counties agric. News (Engl.) 16. 1952, 89, 91, 93, 95.

Schellenberg, A., Von den Kosten der Spritzmittel im Weinbau. Schweiz. Ztschr. Obst-, Weinbau 61. 1952, 136.

Sperger, R., Wieviel kostet das Spritzen der Obstbäume? Obst- u. Gartenbau, Linz, 7. 1952, 9—10.

Sturgeon, J. H., Stored grain pests cause $ 300 million damage annually. Pest Control, Ohio, 20. 1952, nr. 5, p. 12, 14, 16.

Vasudeva, R. S., and **Gattani, M. L.,** Assessment of losses caused by plant diseases. Indian J. agric. Sci. 21 (1951). 1952, 409—412.

600 000 t Nahrungsmittel durch Vorratsschutz zu erhalten. AID-Kurznachrichten 3. 1954, Nr. 51, S. 1.

Autorenverzeichnis

Index of authors — Index alphabétique des auteurs

Aaftink, E., 102.
Aamodt, T. T., 206.
Aanestad, R. D., 118.
Abadia, A., 177.
Abalos, J. W., 70.
Abbiss, H. W., 263.
Abbott, E. V., 290, 315.
Abe, S., 103.
Abel, A. L., 1.
Aberdeen, J. E. C., 168.
Åberg, E., 34, 143, 339, 345.
Åberg, G., 345.
Abhyankar, S. G., 293.
Aboul-Ela, M. M., 88.
Abrahão, J., 274, 275, 282.
Abramitis, W. W., 349.
Abumiya, H., 98.
Aburto, V. H., 325.
Acatay, A., 251.
Acatay, G., 229.
Acheson, H. V. C., 331.
Acker, R. F., 333.
Ackermann, H. J., 364.
Acland, R., 281.
Adam, D. B., 191.
Adam, F., 255.
Adam, J. G., 229.
Adams, A. M., 20.
Adams, D. F., 240.
Adams, E. M., 375.
Adams, J. A., 58, 145.
Adams, R., 314.
Adams, R. L., 213.
Addy, S. K., 19.
Adrianowa, N. S., 245.
Adsuar, J., 287, 288.
Adyanthaya, N. R., 98.
Aerts, R., 200.
Afanasiev, M. M., 125, 132, 136.
Afifi, A., 93.
Agapova, I. V., 149.
Agarwal, G. P., 114.
Agarwala, S. C., 161.
Agati, J., 147, 150.
Aggéry, B., 22.
Ahlberg, O., 162, 166.
Ahlgren, G. H., 143.
Ahmad, M., 50.
Ahmed, D. D., 145.
Ahrens, L., 348.
Aichele, H., 184.
Aino, S., 254.
Ainsworth, G. C., 26.
Aiso, K., 331.
Aitken, T. R., 88.
Aitkenhead, P., 121.
Akai, J., 21.
Akai, S., 92, 200.
Akaishi, Y., 193, 324.
Akakawa, K. Y., 217, 287.
Akdoğan, M., 191, 225.
Akdoğan, S., 83, 154, 220.
Akeley, D. F., 124.
Akeley, R. V., 114, 116.
Åkerman, Å., 2, 93, 313.
Akesson, N. B., 370.
Akuğur, M., 348.
Akune, S., 149.
Alam, S. M., 45.
Alamo Ibarra, R., 290.
Alban, E. K., 157, 158, 345.
Albert jr., A. D., 271.
Albert, W. B., 33, 276.
Alberti, B., 63.
Albrecht, F. O., 45.
Aldebert, P., 225.
Alden, C. H., 42.
Aldo, P., 220.
Aldrich, D. G., 9, 213, 321, 367.
Aldrich, K. F., 233.
Aldrich, R. J., 88, 139.
Aldridge, W. N., 372.
Aldrovandi, A., 127.
Alejnikowa, M. M., 255.
Aleksandrow, F. A., 198.
Aleschina, O. A., 215.
Alessandrini, M. E., 372.
Alexander, C. C., 213.
Alexander, Ch. P., 5.
Alexander, C. P., 38, 70, 325.
Alexander, E. D., 30, 342.
Alexander, L. J., 113, 172.
Alexopoulos, C. J., 208.
Alkan, B., 105, 359.
Allard, R. W., 133.
Allen, A. A., 56, 57, 62, 71.
Allen, H., 143.
Allen, H. W., 5.
Allen, I. W., 240.
Allen, M., 208.
Allen, M. W., 38, 180, 184, 210, 227, 264.
Allen, O. N., 19, 138, 286, 332.
Allen, R. M., 245, 275, 356.
Allen, S. E., 8.
Allen, T. C., 131, 348, 357.
Allen, W. R., 183.
Alliot, H., 305.
Allison, 169.
Allison, J. L., 83, 100, 130, 138, 140.
Allison, P., 28.
Allman, S. L., 254, 272.
Allred, B. W., 34, 143.
Alpatjew, G. M., 233.
Alper, T., 281.
Althaus, B., 363.
Al-Tikrity, A. B., 247.
Altmann, H., 225.
Alvarez García, L. A., 270, 282.
Alvarez, L. A., 317.
Alvarez, R., 291.
Alvarez, V., 377.
Amann, F., 32.
Ames, R. W., 242, 257, 264.
Ammann, A., 8, 16.
Amon, R., 255.
Amormino, V., 372.
Amos, G. L., 257.
Amsel, H. G., 63.
Amstein, W. G., 348.
Anchierri, 245.
Anders, E., 302.
Andersen, A. L., 98, 131, 132.
Andersen, E. T., 127.
Andersen, K. Th., 108.
Andersen, S., 89.
Anderson, C. G., 38, 268, 271.
Anderson, C. J., 235.
Anderson, C. W., 78, 165.
Anderson, D. A., 235.
Anderson, E. D., 367.
Anderson, E. G., 29, 339.
Anderson, H. W., 161, 174, 200, 331.
Anderson, J. P., 25.
Anderson, L. D., 105, 139, 348, 372.

Anderson, L. J., 137.
Anderson, P. J., 147, 321.
Anderson, R. H., 173.
Anderson, R. L., 239, 244.
Anderson, R. W., 372.
Anderson, W. E., 6, 101.
Anderson, W. P., 134, 333, 345.
Anderssen, E. E., 105, 281.
Andes, J. O., 161, 184, 197.
Andeweg, J. M., 171.
Andison, H., 263.
Andrássy, I., 38.
Andrén, F., 101, 153, 184, 264.
Andrew, J., 354.
Andrewartha, H. G., 42.
Andrewes, C. H., 82.
Andrews, E., 98.
Andrews, E. A., 156.
Andrews, F. W., 342.
Andrews, J. W., 257.
Andrianowa, N. S., 139.
Androić, M., 245.
Andrus, M., 209.
Anerud, K., 11.
Angell, G. N., 207.
Angell, H. R., 22, 133, 191.
Anglade, P., 89.
Angus, T. A., 251.
Anhoury, J., 277.
Anitschkowa, P. G., 248.
Ankersmit, G. W., 135.
Annau, E., 359.
Anselme, C., 151.
Anthon, E. W., 184, 193, 196.
Anthony, K. R. M., 277.
Antony, J., 286.
Aoi, I., 14.
Aoki, A., 179, 197.
Aoki, K., 261.
Aoshima, K., 241, 258.
Apostolides, C. A., 20.
App, F., 160.
Appel, G. O., 297.
Appel, H., 372.
Appel, O., 6.
Appert, J., 273.
Apple, J. W., 44, 108.
Arai, M., 102.
Arai, T., 15, 331.
Arana, L. A., 174.
Arant, F. S., 372.
Arashi, K., 34, 102.
Arbuthnot, K. D., 108, 322, 335.
Arceneaux, G., 34.
Archer, W. A., 311.
Archimowitsch, A. v., 121.
Arenz, B., 111, 119.
Ark, P. A., 220, 264.
Arle, H. F., 34.
Armer, A. A., 125.
Armer, W., 32.
Armitage, H. M., 128, 193.
Armour, C. J., 184, 189.
Armstrong, G., 359.
Armstrong, G. M., 153.
Armstrong, J. K., 153.
Armstrong, J. M., 137.
Armstrong, W. D., 193.
Arnaboldi, R., 339.
Arndt, E., 206.
Arnold, J. W., 63, 298.
Arnoldi, K. W., 42, 245.
Arnoldi, L. V., 56.
Arny, D. C., 96, 101, 102, 321.
Arola, V. A., 339.
Arrieta, M. L., 45.
Arrigoni, A., 233.
Arsić, M., 83.
Artaza, C. A., 93.
Artsikhowskaia, E. W., 28.
Arx, J. A. v., 23, 92, 265.
Arya, H. C., 133.
Asahina, Y., 29.
Aschan, K., 25.
Asem, M. A., 278.
Asen, S., 271.
Ashbaugh, F. A., 305.
Ashby, W., 299.
Ashdown, D., 15, 359, 372.
Askew, H. O., 11.
Asquith, D., 184, 203, 319, 348.
Astelarra, L. P., 52.
Asuyama, H., 284.
Atanacković, St., 119.
Athow, K., 133.
Atkins, E. L., 185.
Atkins jr., E. L., 216.
Atkins, J. G., 104.
Atkins jr., J. G., 26, 104, 105, 133, 165.
Atkins, R. E., 90.
Atkinson, J. D., 190.
Atkinson, R. E., 109.
Auber, J., 70, 325.
Aubert, J. F., 63.
Auclair, J. L., 52.
Audibert, 223.
Audisio, H. S., 193.
Audus, L. J., 8, 9, 345.
Auersch, O., 119.
Aughanbaugh jr., J. E., 229, 330.
Augustijn, C. J., 261.
Augustinsson, K.-B., 357.
Autrum, H., 42.
Autrum, H.-J., 42.
Åvall, H., 134.
Avasthi, P. N., 291.
Avery, C. J., 42.
Avidov, Z., 182, 193, 206.
Axelsson, J., 298.
Aycock, R., 284.
Ayers, G. W., 112.
Ayers, T. T., 312.
Ayoutantis, A. J., 83.
Azab, Y. E., 290.
Azad, R. N., 111, 116.
Azariah, M. D., 366.

Baader, G., 229.
Baas, J., 119, 180.
Baas Becking, L. G. M., 345.
Baba, I., 98.
Babers, F. H., 42, 353.
Bache-Wiig, S., 23.
Bachmann, F., 180, 181, 206.
Bachruschin, G. S., 12.
Back, R. C., 359.
Bacon, O. G., 105, 166, 172, 187, 222.
Baclus, S., 168.
Baer, J. G., 286.
Bärner, J., 174.
Baeta Neves, C. M., 42.
Bagchee, K., 286.
Baggiolini, M., 41, 193, 325, 327.
Bagnall, R. H., 121, 123.
Baichwal, R. S., 365.
Baier, W., 177.
Bailey, D. L., 5.
Bailey, J. S., 33, 208.
Bailey, N. S., 51, 52.
Bailey, W. K., 280.
Baillod, M., 63.
Bain, D. C., 156, 161.
Baines, R. C., 154, 216.
Baird, G. T., 345.
Baker, A. C., 216.
Baker, A. W., 5.
Baker, C., 347.
Baker, E. W., 183.
Baker, G. A., 222.
Baker, G. C., 235.
Baker, H., 359, 367.
Baker, K. F., 9, 23, 261, 321.
Baker, K. H., 227.
Baker, R. R., 265.
Baker, W. A., 314.
Baker, W. L., 232.
Bakke, A., 245.
Bakke, A. L., 103.
Bakker, D., 32.
Bakker, M., 166, 169.
Bakshi, B. K., 25, 241.
Bal, S. N., 348.
Balachowsky, A. S., 52, 248.
Balaganskaja, V. E., 303.
Balâmír, S., 45.
Balasubrahmanyan, R., 275.
Balasubramaniyan, C., 14.

Balazuc, J., 58.
Balch, R. E., 247, 251.
Bald, J. G., 8, 20, 81, 268, 270.
Baldacci, E., 8, 26, 78, 83, 87, 98, 101, 220, 225.
Baldassri, T., 179.
Baldini, E., 154.
Baldoni, R., 125.
Baldwin, M. M., 356.
Balewski, A., 124, 127.
Balfour-Browne, J., 62.
Ball, H., 161.
Ball, W. L., 335.
Ballard, S., 75.
Balłczo, H., 15.
Balmos, D., 29.
Bandinelli, R., 235.
Banerjee, S., 261.
Banerji, A., 293.
Bangham, W. J., 363.
Bangham, W. N., 365.
Bangsberg, R. C., 235.
Banham, F. L., 158.
Bannister, E. A., 177.
Banolas, H., 317.
Bant, J. H., 160.
Banta, E. S., 201.
Bap Reddy, D., 298.
Baptista, C., 114.
Barabasch-Nikiforow, I. I., 331.
Barabe, R., 339.
Baracco, G. C., 359.
Barat, H., 293.
Barberis, C., 177.
Barbier, P., 365.
Bardía Bardía, R., 203.
Bardin, R., 167, 168.
Bare, C. O., 149, 163, 305.
Bareis, G., 103.
Bareiß, 365.
Barendrecht, G., 42.
Barendrecht, T., 321.
Bargioni, G., 177, 184.
Baribeau, B., 113.
Barker, J. S., 135.
Barker, W. J., 305.
Barkley, F. A., 179.
Barkley, J. H., 217.
Barlow, F., 349, 359.
Barner, J., 233.
Barnes, D. F., 303.
Barnes, G., 277.
Barnes, G. L., 113, 121.
Barnes, H. F., 105, 331.
Barnes, J. M., 372.
Barnes, M. M., 206.
Barnes, T. W., 103.
Barnes, W. C., 165.
Barnet, G. W. D., 283.
Barnett, H. L., 242, 244.
Barr, C. G., 190.
Barr, H. E., 197, 372.
Barr, W. F., 140.
Barrat, J. G., 195.
Barrera, A., 109, 277, 285, 290.
Barrera, A. A., 298.
Barreto, A., 258, 298.
Barrett, J., 331.
Barrons, K. C., 151.
Barry, P. J., 84.
Barsewisch, E. v., 133.
Bartels, R., 124.
Barth, E., 162, 181, 185.
Bartholomew, E. T., 213.
Bartlett, B., 287.
Bartlett, B. R., 220.
Bartolomé, R., 281.
Baruah, H. K., 269, 286.
Baruah, P., 269.
Baschenina, N. W., 256.
Basham, J. T., 229.
Bashford, H., 34.
Basile, R., 91, 167.
Basilewsky, P., 56.
Baskett, R. S., 125.
Bassett, I. J., 33.
Bassham, A. E., 191.
Bassoles De Barrera, I., 57.
Bassols, I., 277, 298.
Basu, B. C., 352.
Basu, U. P., 348.
Batchelor, G. S., 41, 374.
Batchelor, L. D., 6, 212, 215, 219.
Bateman, A. J., 263.
Bateman, G. A., 372.
Bates, G., 290.
Bates, J., 290.
Bates, J. C., 199.
Batista, A. C., 26, 287.
Batjer, L. P., 198.
Batra, H. N., 287.
Battle, W. R., 138.
Batts, C. C. V., 29, 93.
Bauers, Ch., 42.
Baumeister, G., 202.
Baumeister, W., 1.
Baumgarten, A., 119.
Baumgartner, A., 11.
Baur, K., 341.
Bavendamm, W., 241, 258, 305, 306.
Bawden, F. C., 324.
Baxter, D. V., 1, 229, 241.
Baxter, J. W., 174.
Bayer, D. E., 143.
Bayles, B. B., 94.
Baylor, J. E., 139.
Baynes, E. S. A., 251.
Bayubay, S., 147, 150.
Bazán de Segura, C., 83, 113, 114, 118, 119, 219, 275.
Bazzigher, G., 242.
Beach, G. O., 340.
Beacher, R. L., 275.
Beaka, K. H., 146.
Beal, J. A., 245.
Beale, H. P., 270.
Beale, J. H., 270.
Beament, J. W. L., 42.
Bean, J. L., 252.
Beard, J. W., 80.
Beard, R. L., 325, 349.
Beattie, B., 235.
Beattie, J. M., 198.
Beatty, A. V., 370.
Beatty, R. H., 340.
Beaulieu, A. A., 185.
Beaumont, A., 263, 267, 268, 270, 271, 272.
Beccari, F., 61.
Beck, 261.
Beck, E. G., 32, 311.
Beck, E. W., 105, 108.
Beck, G. E., 268.
Beck, H., 15.
Beck, M., 346.
Beck, T. V., 29.
Beckenbach, J. R., 156.
Becker, A., 101, 103, 115, 126, 297, 334, 340, 354.
Becker, E., 372.
Becker, G., 50, 248, 258, 260, 306.
Becker, G. G., 315.
Becker, H., 183, 227.
Becker, K., 75, 355.
Beckerich, A., 58.
Beckham, C. M., 58, 65, 158, 277.
Becking, J. H., 251.
Beckman, C. H., 242, 243.
Beckman, H. F., 372.
Becks, A., 265.
Bedrikowskaja, N. P., 213.
Beemster, A. B. R., 124.
Begg, J. A., 118.
Bégué, H., 356.
Behr, E. A., 306.
Behr, L., 7, 9, 174.
Behrens, O., 317.
Beier-Petersen, B., 248.
Bein, 334.
Beinert, W., 261, 367.
Beinhart, E. G., 148, 149.
Beirne, B. P., 294.
Beiser, W. C., 326.
Beljaew, I. M., 334.
Bell, F. H., 93.
Bell, G. D. H., 93.
Bellack, E., 357.
Bellan, A., 229.
Bellavite, F., 68, 120, 319.
Belle, G., 349.
Belleguenle, J., 167.
Bellik, S., 45.
Bellis, G. H., 221.

Bellmann, H., 258, 306.
Bellows, J. M., 349.
Bellue, M. K., 32.
Belowa, O. D., 112, 113.
Belozerov, P. I., 29.
Bels-Koning, H. C., 311.
Belyea, R. M., 251.
Belzile, A., 209.
Bemelmans, J., 282.
Benander, P., 63.
Benatena, H. N., 220.
Bender, E., 181, 193, 203, 206.
Bender, E. K., 134.
Benedict, W. V., 241.
Beneke, E. S., 303, 305.
Benford, H., 277, 340.
Benick, L., 311.
Benjamin, D. M., 251.
Benjamin, R. K., 324.
Benkewitsch, W. I., 63.
Benlloch, M., 5, 105, 168, 325.
Ben-Meir, Y., 215.
Ben Meir-Glueck, Y., 215.
Bennett, A. G., 277.
Bennett, C. W., 78, 128.
Bennett, H. H., 9.
Bennett, M., 199, 200, 203, 374.
Bennett, R. G., 306.
Bennet⁺, S. H., 357.
Bennetts, H. W., 36, 37.
Benoist, 103.
Benson, D. D., 306.
Bental, A., 96.
Bentz, G., 93, 331.
Bentz, R. W., 294.
Benvenuti, A., 111.
Beraha, L., 81.
Beran, F., 64, 119, 185, 317, 349, 353, 366, 372, 377.
Berbee, J. G., 242.
Berck, B., 258.
Bercks, R., 121.
Berdennikowa, S. P., 261.
Berducou, J., 200.
Berendes, P., 340.
Beresowskij, N. J., 12.
Berezina, V. M., 248.
Berg, H., 294.
Berger, G., 171, 227.
Berger, K. C., 44, 127, 137, 366.
Bergman, B. H. H., 105.
Bergmark, M., 37, 40.
Bergold, G., 323.
Bergsma, D., 340.
Berk, S., 20.
Berke, H., 17.
Berkeley, G. H., 164, 196.
Berliner, 298.
Bernard, C. J., 15.
Bernard, J., 62, 71, 128, 193, 261.
Bernardi, G., 64, 223.
Bernaux, P., 83.
Bernfus, E., 298.
Bernhard, 248.
Bernstorff, H., 197.
Bernuth, v., 89, 126.
Bernuth, W. v., 58.
Berridge, N. J., 331.
Berry, P. A., 274, 282.
Beroza, M., 346.
Bertossi, F., 148.
Bertran, A., 71.
Bertrand, G., 293.
Bervoets, W. P., 15.
Besemer, A. F. H., 185, 317, 340.
Besemer, A. L. H., 202.
Besemer, A. T. H., 334.
Beskine, J. M., 367.
Bess, H. A., 182, 334.
Besson, G., 334.
Besson, J., 193.
Bessuand, J., 12.
Betrem, J. G., 273.
Betto, E., 117.
Bever, W. M., 109.
Beveridge, W. M., 35.
Bevilacqua, I., 206.
Bewley, W. F., 168, 172, 261, 321.
Beyer, F., 264, 334.
Beyers, E., 213.
Bhagwagar, P. R., 338.
Bhat, J. V., 295.
Bhatia, S. C., 359.
Bhatt, V. V., 19.
Bhattacharya, K. P., 329.
Bhattacharyya, B., 286.
Bhattacharyya, J. P., 17, 24.
Bhide, V. P., 331.
Bialyi, A. M., 235.
Bianchi, H., 181, 228.
Bibbey, R. O., 34.
Bickel, E., 203.
Bickerstaff, F., 64.
Biddulph, C., 372.
Bidstrup, P. L., 340, 372.
Bieberdorf, F. W., 340.
Biebl, R., 311.
Biedermann, W., 28.
Bier, J. E., 232.
Bieri, F., 185.
Bilbe, L. T., 254.
Bilbrey, K., 276.
Biliotti, E., 251.
Billep, F. K., 230.
Billings, S. C., 334.
Bindseil, 233.
Bing, A., 268.
Bingefors, S., 139.
Binkley, A. M., 111.
Binns, E. J., 306.
Binns, W., 372.
Biondl, L., 367.
Biraghi, A., 109, 154, 221, 230. 239, 241.
Birchler, A., 64.
Bird, F. T., 323.
Bird, J., 287.
Bird, L. S., 275.
Bird, R. D., 139.
Bird, W., 9.
Birk, L. A., 162, 372.
Birkett, N. L., 325.
Birkinshaw, J. H., 241.
Birnbaum, H. A., 27.
Birukowa, W. S., 34.
Bisby, G. R., 23.
Bishara, I., 277.
Bishop, H. J., 218.
Bishopp, F. C., 145, 277, 325, 349, 372, 379.
Bissell, T. L., 105, 349.
Bisset, K. A., 18.
Bissinger, W. E., 359.
Bitancourt, A. A., 216, 240.
Bitter, H., 126.
Bitters, W. P., 215, 219.
Bittner, A., 372.
Biyikoğlu, K., 20, 25, 27, 130, 156, 321.
Bjegović, P., 315.
Björling, K., 129.
Björklund, C. M., 304.
Bjørnstad, A., 78.
Black, J. D. F., 201.
Black, L. M, 78, 80, 81, 137, 141, 172.
Black, M. W., 177.
Black, W., 115, 116, 123.
Blackaller V., A., 277, 359, 372.
Blackburn, F. H. B., 340.
Blackburn, N. D., 63.
Blackford, J. L., 330.
Blackith, R. E., 363.
Blackman, G. E., 15, 17, 37, 143, 340, 342, 366.
Blackwelder, R. E., 56.
Blagbrough, H. P., 257.
Blagodarow, W. A., 113.
Blair, C. A., 41.
Blair, D. S., 197, 198.
Blair, I. D., 8, 83.
Blair, K. G., 64.
Blais, J. R., 245, 251.
Blake, G. H., 139.
Blake, L. V., 34.
Blakeley, P. E., 66.
Blanchard, M., 29.
Blanchard, R. A., 105.
Blanchet jr., H. J., 374.
Blanck, A., 13, 71, 182.
Blanco, G., 45, 282.
Bland, H. E., 276.
Blank, F., 338.

Blank, L. M., 276.
Blankwaardt, H. F. H., 246.
Blanton, F. S., 265, 325.
Blaquière, C., 334.
Blaszyk, P., 115.
Blauvelt, W. E., 41.
Bletchly, J. D., 306.
Bleton, C., 225.
Blew, J. O., 258, 306, 307.
Blew jr., J. O., 258.
Blin, H., 177.
Blinks, L. R., 15.
Blinn, R. C., 216, 357.
Bliss, D. E., 285.
Blobaum, R., 91, 359.
Bloch, R., 18.
Block Wasser, H., 64, 323.
Blodgett, E. C., 195.
Blodgett, F. M., 123.
Blondel, B., 311.
Bloodworth, M. E., 319.
Bloom, J. R., 169.
Blouch, R., 34.
Blouch, R. M., 34.
Blümke, 34, 145, 330.
Blume, J. M., 15, 370.
Blume, W., 40.
Blumer, E., 233.
Blumer, S., 23, 201, 225, 272, 377.
Blunck, H., 162, 203, 325.
Boasso, C. S., 94.
Boback, A. W., 40.
Bobb, M. L., 45, 193.
Bobrov, R. A., 89.
Bočarova, O. M., 105.
Bockmann, 137.
Bockmann, H., 91, 98, 131, 133, 314.
Boczkowska, M., 119.
Bode, O., 79, 111.
Bodenheimer, F. S., 42.
Bodenheimer, S., 245.
Bodenstein, D., 49.
Bodenstein, G., 52, 270, 330, 359.
Bodin, N.-O., 68.
Bodine, J. H., 45.
Bodinier, R. A., 58.
Bodrov, V. A., 233.
Böhm, H., 64, 175, 197, 203, 205, 206, 210, 349, 353, 356.
Böhm, O., 118, 227, 265, 272.
Böhme, L., 340.
Böhner, P., 241.
Bömeke, H., 175, 184, 185, 303.
Böning, K., 2, 377.
Boer, H. T., 340.
Böer, W., 13, 313.
Boerger, A., 6, 105, 142, 151, 313.
Börner, C., 52.
Böttcher, F. K., 153, 372.
Böttcher, H., 105, 153, 162.
Boewe, G. H., 91.
Bogavac, M., 64.
Bogdanow, W., 124.
Bohmont, D. W., 32, 345, 365.
Bohonos, N., 20, 332.
Bohus, G., 94.
Boischot, P., 9.
Bolaños, C., 281.
Bollaerts, D., 64, 325.
Bolle, F., 9, 110, 115, 313.
Bolle-Jones, E. W., 11.
Boller, A., 333.
Bollow, 135, 193.
Bollow, H., 64, 70, 71, 105, 180, 272, 294, 317.
Bombosch, S., 58, 248.
Bonaventura, G., 103.
Bond, T. E. T., 311.
Bondarovič, M. J., 227.
Bonde, R., 110, 124, 169.
Bondy, F. F., 278.
Bonelli, P. B., 71.
Boness, M., 145.
Bonfils, J., 48.
Bongiovanni, G. C., 52, 180, 181, 205, 357.
Bonne, K., 87.
Bonnell, J. A. L., 372.
Bonnemaison, L., 57, 62, 139, 153, 162, 315.
Bonner, D. M., 161.
Bonner, J., 154.
Bonnett, O. T., 109.
Bonnier, Ch., 18.
Bonniers, C., 133.
Bonz, G., 184.
Boock, O. J., 117.
Boocock, D., 363, 367.
Boon, W. R., 351.
Boone, D. M., 201, 202.
Boosalis, M. G., 91, 142.
Booth, C. E., 230.
Boral, D., 201.
Boratynski, K. L., 52, 247.
Borchardt, H., 303.
Borchers, F., 58.
Bordeleau, R., 127.
Borden, A. D., 180, 185, 197.
Borello, E., 361.
Borg, Å., 70, 104, 145, 153, 203, 325.
Borg, J., 306.
Borget, M., 284.
Boring, J., 330.
Borlaug, N. E., 94.
Borschtschewskij, A. N., 258.
Borstel, R. C. v., 329.
Borstell, H. C., 367.
Bortels, H., 313.
Borzini, G., 225.
Bose, R. G., 17, 24.
Bose, S. R., 25.
Boselli, F., 182.
Bosher, J. E., 39, 118, 264.
Boshoff, W. H., 367.
Bosq, J. M., 325.
Bossard, R., 262.
Bosse, G. H. C., 357, 365.
Boswell, V. R., 15, 164.
Bot, J., 359.
Both, D., 274.
Bôttari, V., 215.
Bottger, G. T., 357, 365.
Bottomley, R. A., 298.
Bouček, Z., 174.
Bouchet, R., 153, 267, 325.
Bouchet, R. L., 157, 262.
Boudène, C., 16.
Boudissin, F. v., 335.
Bouffil, F., 29.
Bouhier de l'Ecluse, R., 203.
Boultbee, R., 235.
Boulton, E. H. B., 306.
Bouriquet, G., 83, 286, 317.
Bourn, N., 265.
Bourne, B. A., 290.
Bouron, H., 337.
Bourqui, P., 58, 60.
Boursin, Ch., 64.
Boush, G. M., 295.
Bovey, P., 1.
Bovey, R., 211, 212.
Bovien, P., 83.
Bowden, R. A., 141.
Bowden, S. R., 153.
Bowen, C. V., 349.
Bowen, G. D., 139.
Bowen, H. D., 372.
Bowman, D. R., 147.
Bowman, F., 297.
Bowman, H., 77.
Box, H. E., 290, 325.
Boyce, A. M., 6.
Boyce, H. R., 204.
Boyce, J. H., 103, 134.
Boyce, J. S., 239.
Boyce jr., J. S., 239, 242, 243.
Boyd, A. E. W., 110, 113, 114, 297.
Boyd, P. F., 332.
Boyd, W. M., 211, 379.
Boyes, J. W., 70.
Boyes, W. W., 303.
Boyko, H., 141.
Boyle, A. M., 175.
Boyle, L. W., 38, 280.
Boynton, D., 190, 197, 198.
Boysen-Jensen, P., 7.
Boza Barducci, T., 275.
Bozhko, M. P., 44.
Bradbury, D., 131.
Bradbury, F. R., 359.

Bradley, J. D., 64, 181.
Bradley, R. H. E., 117, 121, 174.
Bradley, W. G., 105, 108.
Bragg, K. K., 31.
Brakke, M. K., 81, 172.
Brakman, P. J., 56.
Bramble, W. C., 36, 239, 240.
Brammanis, L., 58, 248.
Branas, J., 227, 229.
Brandenburg, E., 5.
Brandt, H., 2, 64, 110, 181, 185, 322.
Brann, J. L., 197.
Brannaman, B. L., 198, 214.
Brannan, C. F., 9.
Brannon, C. H., 271.
Brannon, D., 210.
Brannon, D. H., 207, 210, 262.
Branzanti, E. C., 185, 191.
Brase, K. D., 196.
Braun, 200.
Braun, A. C., 7, 18, 20.
Braun, A. J., 225.
Braun, E., 137.
Braun, H., 110, 113.
Braunger, 303.
Brauns, A., 181, 248, 251, 258, 306.
Brauns, F. E., 239.
Bravenboer, L., 156, 171, 175, 185, 322.
Break, R. A., 208.
Breakey, E. P., 124, 152, 210, 212, 267, 268, 349.
Bredo, H. J., 45.
Brehm, E., 56.
Breider, H., 227.
Brejcha, V., 340.
Breland, O. P., 42.
Bremer, H., 20, 25, 27, 83, 130, 156, 167, 321.
Bremer, K., 110.
Breniere, J., 367.
Brennan, E., 360.
Brentzel, W. E., 101, 321.
Breny, R., 64, 193, 262, 321, 325, 335, 349, 359, 363, 365.
Brenzel, W. E., 92.
Bresler, R., 36.
Bretschneider-Herrmann, B., 15.
Brett, C. H., 45.
Brett, G. A., 58.
Bretz, T. W., 242, 257.
Breuer, W., 177.
Breuning, S., 61.
Breunlin, R., 230.
Breviglieri, N., 2.
Brewer, D., 133.
Brewster, M. S., 271.
Brganina, F. G., 13.
Brian, A. D., 71.
Brian, M. V., 71.
Brian, P. W., 27, 331, 338.
Brian, R. C., 345.
Briceño, G. C., 290.
Briceño, R., 340.
Briceño, S. H. R., 290.
Brichet, J., 154, 223.
Bridgmon, G. H., 268.
Bridwell, J. C., 293.
Briejer, J., 315.
Brien, R. M., 29.
Brierley. P., 262.
Brierley, Ph., 265, 268, 272.
Brierley, W. G., 208.
Briggs, J. B., 181, 204.
Brimblecombe, A. R., 245.
Brindley, T. A., 86, 135.
Brinkerhoff, L. A., 275.
Brinkmann, K. A., 242.
Briscoe, M. S., 83, 85.
Brison, F. R., 13.
Britten, H., 70.
Britton, H. G., 359.
Briuschkowa, K. A., 154.
Broadbent, L., 81, 121, 164.
Brock, A. A., 42, 379.
Brock, R. D., 82, 171.
Brockwell, J., 113, 142.
Broda, E., 150.
Brodell, A. P., 319, 344.
Brohmer, P., 230.
Bromfield, K. R., 94.
Bronson, D. R., 104.
Bronson, T. E., 135, 367.
Bronzowa, G. J., 9.
Brook, M., 185, 359.
Brook, T. St., 51.
Brooke, E. H. B., 306.
Brookes, J. D., 254.
Brooks, A. N., 38.
Brooks, F. A., 13, 213.
Brooks, M., 64, 330.
Brooks, R. M., 175, 190.
Brooks, R. O., 244.
Brotos, C., 349.
Broughton, W. B., 45.
Brown, A. A., 235.
Brown, A. L., 32.
Brown, A. M., 25, 94, 271.
Brown, A. W. A., 349.
Brown, D. A., 34.
Brown, D. S., 177.
Brown, E., 193.
Brown, E. B., 45.
Brown, E. C., 370.
Brown, I. L., 185.
Brown, J. C., 11.
Brown, J. G., 175, 275.
Brown, J. W., 131, 132.
Brown, L. C. 274.
Brown M. S., 274, 275.
Brown, R., 29.
Brown, R. C., 251.
Brown, R. F., 211.
Brown, R. L., 110.
Brown, W. B., 359.
Brown, W. J., 56.
Brown, W. L., 71.
Brown jr., W. L., 71.
Brown, W. N., 89.
Browning, T. O., 45.
Broyles, J. W., 94.
Bruce, J. V., 355.
Brückbauer, H., 272.
Bruehl, G. W., 92, 98.
Brühmann, W. F., 298.
Brüll, H., 61.
Brüne, F., 11.
Bruer, H. L., 195, 196.
Brues, Ch. T., 42.
Bruggeman, L. C., 257.
Bruhn, 13.
Bruins, G. W., 162.
Brun, J., 287.
Brun, R., 71.
Brundin, L., 56.
Brunet, P. C. J., 45.
Bruneteau, J., 315.
Bruni, O., 151.
Brunner, E., 227.
Bruns, H., 330.
Bruns, V. F., 30.
Brunson, M. H., 193.
Bruun, J., 256.
Bryant, L. R., 179.
Brygider, W., 71.
Buchholtz, K. P., 34, 89, 135, 143, 340, 345, 346.
Buchholz, 330.
Buchholz, E., 241.
Buchli, H. H. R., 50, 324.
Buchner, A., 11, 13, 346.
Buchwald, A. v., 281.
Buchwald, N. F., 11.
Buck, G. J., 271.
Buck, J. B., 70.
Buckland, D. C., 244, 256.
Buckstein, M. E., 235.
Buddenbrock, W. v., 42.
Büch, C., 52, 62, 313, 325.
Bückmann, D., 64.
Bürnheim, 367.
Bugnicourt, F., 91, 98.
Buhl, C., 162.
Buhr, H., 8, 230.
Bulger, W. O., 206.
Bull, P. C., 75, 323, 325.
Bullock, A. A., 30.
Bullock, R. M., 175, 198.
Bunina, A. M., 175.
Burdick, E. M., 377.
Burgdörfer, H., 248.

Burger, W. C., 80.
Burges, A., 23.
Burges, H. D., 295.
Burgess, L. E., 45.
Burgess, W. M., 271.
Burk, V. F., 135, 349.
Burke, J. P., 237.
Burkhardt, C. C., 105.
Burkhardt, G., 53.
Burkhead, C. E., 319.
Burkholder, C. L., 191, 197.
Burks, B. D., 42, 52, 325.
Burleson, C. A., 319.
Burman, J. H., 322.
Burmann, K., 64.
Burmann, K. B., 64.
Burnet, I. M., 201.
Burnett jr., D., 71.
Burns, E. A., 315.
Buro, A., 230.
Burrage, R. H., 145.
Burrau, N., 64.
Burrell, A. B., 197, 198, 201, 319, 367.
Burton, M. O., 18.
Burton, P. J., 64.
Burton, W. G., 110, 297.
Burts, E., 193.
Buscaroli, G. F., 206.
Buscarons, F., 359.
Bush, R., 41, 191, 367.
Bushland, R. C., 375.
Bushue, H. J., 209.
Busnel, M.-C., 221.
Busnel, R.-G., 44, 221.
Bussart, J. E., 247.
Busse, v., 256.
Bussmann, A., 178.
Bustinza, F., 331.
Busvine, J. R., 367.
Butarobol, C., 285.
Butcher, F. G., 85.
Butcher, J. W., 254.
Butky, S. R., 58.
Butler, E., 274, 277.
Butler, E. E., 20.
Butowitsch, W., 306.
Butsewitsch, L. A., 149.
Buttler, C. C., 30.
Buttler, L. I., 195.
Butts, J. S., 132.
Buzacott, J. H., 290.
Buzicky, A., 106.
Bylterud, A., 340.
Bynum, E. K., 290.
Byram, G. M., 235.
Byrde, R. J. W., 23, 179, 185, 200, 201.
Byron, R. H., 109.
Bytinski-Salz, H., 85, 175, 286.

Caballero, J. B., 36.
Cabal Martinez, E., 91.
Cabane, E., 349.
Cadman, C. H., 211.
Cadogan, J. P., 124.
Caffrey, D. J., 149.
Caffrey, M., 9.
Cain, J. C., 190.
Cain, R. F., 27, 132.
Cairaschi, E. A., 223, 229, 335.
Cairns, E. J., 38, 311.
Čakar, L., 251, 325.
Çakillar, M., 67, 154, 206, 271, 277, 279.
Calaby, J. H., 323.
Calavan, E. C., 212, 215, 219.
Caldecott, R. S., 89.
Calderon, R., 282.
Caldwell jr., A. H., 355.
Caldwell, J., 78.
Caldwell, J. S., 247.
Calhoun, S. L., 65, 274, 277, 279.
Call, F., 294, 359.
Callaham, R. Z., 317.
Callantine, E. J., 32.
Callsen, H., 91, 340.
Calvert, J., 317.
Calvet, C., 185.
Calza, R., 282.
Camacho, C., 282.
Camden-Cooke, A., 197, 372.
Cameron, J. W. M., 323.
Cameron, M., 56.
Camfferman, J., 166, 168, 173, 207.
Camp, A. F., 213.
Camp, W. H., 221, 242.
Campagna, E., 32.
Campbell, A. M. G., 372.
Campbell, G. A., 363.
Campbell, I. J., 277.
Campbell, J. A., 156.
Campbell, L., 173.
Campbell, R. W., 191.
Campbell, W. A., 234, 239.
Campbell, W. V., 277, 325.
Campos, A. T., 94.
Čamprag, D., 270.
Canamas, R., 94, 97.
Candela Martínez, M. I., 23.
Cann, H. J., 287.
Cannon, R. C., 287.
Cannon, O. S., 169.
Cano, F., 185.
Cano del Castillo, A., 52.
Canova, A., 18, 125, 200, 222.
Cantelo, W. W., 254.
Cantrell, O., 295.
Capoor, S. P., 78, 131.
Capps, H. W., 270.
Capuano, E., 179.
Caputa, J., 137.
Carayon, J., 306.
Cardeñosa, B. R., 287.
Carder, A. C., 34.
Cardinell, H. A., 190.
Cardona, C., 209.
Cardwell, I., 359.
Carew, J., 157, 160.
Carey, W. C., 340.
Carilli, A., 33, 105, 108, 169.
Carimini, M., 45.
Carl, A., 13.
Carleton, W. M., 372.
Carli, E., 228.
Carlier, L., 179, 201.
Carlo, C. P., 359.
Carlson, F. W., 194.
Carlson, J. G., 45.
Carlson, N. K., 13.
Carlyle, R. E., 367.
Carman, G., 185.
Carman, G. E., 213, 214, 216, 217, 218.
Carney, A., 199.
Carpenter, I. W., 235.
Carpenter, K., 15.
Carr, D. R., 306.
Carrante, V., 215.
Carrera, C. J. H., 230.
Carrera, C. J. M., 20, 115.
Carreras Alté, A., 349.
Carrère, L., 271.
Carroll, J., 38, 56.
Carson, H. C., 357.
Carson, N. A., 300.
Carstens, M. W., 135.
Carter, D. G., 303.
Carter, H. H., 276.
Carter, J. C., 242, 257.
Carter, J. F., 142.
Carter, R. H., 349, 373.
Carter, W., 42, 182, 287.
Carthy, J. D., 71.
Cartier, R. D., 103.
Cartwright, K. St. G., 258.
Cartwright, T. E., 123.
Cartwright, W. B., 106.
Carvajalino Jacome, L. J., 365.
Carvalho, J. C. M., 51.
Casali, D. C., 45.
Casati, S., 98.
Casey, J., 64.
Cash, E. K., 29.
Cash, L. C., 116.
Cashman, E. F., 298.
Casida, J. E., 131, 348, 357.
Caskey, W. L., 322.
Cass, L. M., 173.
Cassaday, J. T., 358.
Cassidy, H. P., 215, 356.
Cassin, J., 215.

Cass Smith, W. P., 18.
Castagnoli, A., 147.
Castaño A., J. J., 281.
Castaño, J. J., 113.
Castberg, C., 122.
Castellani, E., 154, 273, 293.
Castillo, B. S., 287.
Castro, J., 277.
Caswell, J. W., 230.
Catalina, L., 18, 325.
Cation, D., 195, 208.
Cattle, F. P., 103.
Cavina, R., 298.
Cazier, M. A., 57, 58, 61.
Ceballos, G., 248.
Cederman, J. A., 213.
Celice, J., 373.
Celino, M. S., 169.
Čeljadinowa, A. J., 11, 311.
Celso García, B., 281.
Cenoz, H. P., 94.
Cercós, A. P., 332.
Cerdan, D., 235.
Ceruso, H. E., 274, 277.
Cerutti, V., 225.
Česalin, J. A., 340.
Cesaroni, F., 143.
Cetas, R. C., 149.
Chaboussou, F., 45.
Chabrolin, C., 190.
Chada, H. L., 145.
Chadwick, L. E., 359.
Chagnon, G., 70.
Chaiken, L. E., 235, 245.
Chakravarti, B. P., 293.
Chalmers, B., 23.
Chalmers-Hunt, J., 64.
Chamberlain, D. W., 18, 133.
Chamberlain, G. C., 207.
Chamberlin, F. S., 149.
Chamberlin, J. C., 135, 319.
Chamberlin, T. R., 140.
Chamberlin, W. J., 5.
Chambers, V. H., 71.
Chamblee, D. S., 140.
Champion, E., 349.
Champion, F. J., 306.
Champlain, A. B., 53.
Chanasyk, V., 5.
Chancogne, M., 365.
Chandlee, W. B., 221.
Chandler, S., 193, 204.
Chandler, S. C., 51, 221.
Chandler, S. E., 363.
Chanmamedow, K. M., 306.
Channabasavanna, G. P., 58.
Chant, D. A., 50.
Chao, Yung-Chang, 317.
Chaplin, J. F., 148.
Chaplin, P., 264.
Chapman, A. D., 258.
Chapman, F. B., 235.
Chapman, H. D., 213.
Chapman, K., 45.
Chapman, P. J., 41, 65, 185, 187, 204, 352.
Chapman, R. A., 133, 169.
Chapman, R. K., 117, 131, 156, 159, 163, 173.
Chapot, H., 219.
Charin, S. A., 367.
Charitonow, G. A., 234.
Charles, J., 193, 205.
Charmet, F., 96.
Charrin, V., 356.
Chassany, J., 177.
Chateau, R. P., 177.
Chatterjee, H., 310.
Chatterjee, N. C., 261.
Chatterjee, S. N., 48, 320.
Chattopadhyaya, S. B., 113, 115.
Chauvin, R., 119, 139, 372.
Chavanne, 355.
Chavency, A., 286.
Chávez Viaud, M., 340.
Chefurka, W., 49.
Cheliadinova, A. I.,
= Čeljadinova, A. J.
Chella, G., 154, 215, 319.
Chen, C. B., 290, 325.
Chen, S. M., 113.
Chenoweth, M. O., 349.
Chentsova, N. I.,
= Tschenzowa, N. J.
Cheo, P.-Ch., 136, 173, 174.
Cheremisin, V.,
= Tscheremisin, W.
Cherewick, W. J., 94, 318.
Chermock, R. L., 64.
Chervenak, M., 214.
Chesalin, G. A.,
= Tschesalin, G. A.
Chessin, M., 149.
Chester, K. St., 156, 242.
Chetyrkina, I. A., 45.
Cheu, S. P., 45.
Chevalier, A., 37, 212, 273, 287, 293.
Chevallier, L. H. S., 64.
Chevaugeon, J., 83, 92, 280, 285.
Chiang, H. C., 108.
Chiappelli, R., 87, 105.
Chiarelli de Gahan, A., 64.
Chiaromonte, A., 46, 273, 277, 325.
Chiba, O., 258.
Chiba, Y., 149.
Chiesa Molinari, O., 46, 349.
Childers, W. R., 137.
Childress, G. D., 321.
Childs, J. F. L., 219, 220.
Chilton, J. E., 138.
Chilton, S. J. P., 290.
China, W. E., 51, 52.
Chino, T., 224.
Chinnayya, E. J., 25.
Chisholm, A. H., 42, 74.
Chisholm, R. D., 249, 319, 372.
Chitty, D., 75.
Chitwood, B. G., 38, 193, 359.
Chlopin, N. Y., 372.
Chochlow, D. N., 262, 295.
Chochrjakow, M. K., 215.
Chollett, Ch. C., 152.
Chona, B. L., 27, 98.
Chopard, L., 46.
Chorabik, S., 62.
Chouard, P., 335, 346.
Choudhri, B. L., 30.
Chowdhury, S., 215.
Chrestian, P., 181.
Christ, E. G., 227.
Christensen, C. M., 298, 299, 300, 302.
Christensen, J. J., 87, 151.
Christenson, L. D., 81.
Christiansen, D. W., 175.
Christiansen, M. P., 20.
Christie, J. R., 38.
Christowa, E., 124.
Chu, H. T., 290.
Chuan, L. T., 291.
Chuman, K., 284.
Chupp, Ch., 28.
Church, N. S., 46.
Church jr., Th. W., 234.
Churchward, E. H., 346.
Ciampolini, M., 52, 70.
Ciccarone, A., 27, 86, 94, 98, 168, 169, 174, 226, 321.
Ciferri, F., 89, 185.
Ciferri, R., 1, 89, 103, 155, 199, 224, 272, 346, 365.
C[iferri], R., 335.
Cincovic, T., 33.
Cinovskis, J., 71.
Cinq-Mars, L., 198, 202, 338.
Cipolla, G., 155, 285.
Cipriani, P. L., 18.
Claassen, C. E., 175.
Claassen, G. E., 127.
Claborn, H. V., 372, 375.
Claffey, J. B., 364.
Clancy, D. W., 182, 204, 325.
Clapper, R. B., 221, 313.
Clark, A. M., 326.
Clark, E., 359.
Clark, F. E., 19.
Clark, F. S., 94.
Clark, H. E., 132.
Clark, J., 254.
Clark, J. A., 59.
Clark, L., 185.
Clark, L. R., 36.

Clark, N., 36.
Clark, P. G., 204.
Clark, P. J., 197, 372.
Clarke, C. A., 64.
Clarke, J. F. G., 64.
Clarke, M., 340.
Clarke, O. F., 216.
Clarke, P. H., 18, 317.
Clarke jr., W. S., 303.
Claude, P., 27.
Claus, R., 362.
Clausen, C. P., 42, 216, 219, 322, 326.
Clausing, H., 103.
Clayton, E. E., 146, 148.
Cleary, Th. F., 372.
Cleempoel, S., 76.
Cleland, J. W., 40.
Clement, L., 59.
Clément, P., 287.
Clements, W. B., 50.
Clerens, A., 185, 335.
Cleu, H., 310.
Clifford, E. D., 245.
Clymer, C. L., 306.
Cobb, S. S., 235.
Cobos, A., 57.
Cochran, D. G., 46.
Cochran, G. W., 187, 241.
Cochran, J. H., 193.
Cochran, L. C., 190, 195.
Cock, R. E., 33, 346.
Cockayne, E. A., 64.
Cockbill, G. F., 38.
Cockerham, G., 121.
Cockerham, K. L., 284.
Coda, T., 86, 180, 182.
Coe, D. M., 138.
Cohen, A., 214.
Cohen, G., 34, 103, 130, 340, 367.
Cohen, M., 149, 167, 172, 265.
Coic, Y., 89, 112.
Coiffait, H., 56.
Colamaria, F., 64.
Colas, G., 56.
Colburn, R. W., 80.
Cole, A. C., 72.
Cole, C. E., 167.
Cole, J. R., 222.
Coleman, F. B., 295.
Coleman, R. E., 290.
Coleman, R. G., 90.
Coleman, R. J., 151.
Colleary, M. J., 306.
Collias, E. C., 51.
Collier, J. W., 88.
Collins, D. L., 365.
Collins, E. V., 103.
Collins, W. B., 346.
Collomb, C., 367.
Collyer, E., 41, 183, 326.
Colombin, A., 202.
Colonna-Cesari, X., 48.
Colter, W. G., 11.
Colvill, L. L., 235.
Comegys, W. R., 242.
Comelli, A., 197.
Commoner, B., 80, 82, 150.
Complin, J. O., 218.
Compton, C. C., 105, 359.
Compton, G. C., 183.
Concienne, E. J., 291.
Conkle, H. J., 315.
Connell, T. D., 290.
Conner, B. M., 340.
Conners, I. L., 3, 83, 94, 335.
Connin, R. V., 43, 46, 47, 318.
Connolly, P. J., 290, 363.
Conova, R. A., 338.
Conover, R. A., 171.
Conrad, W., 185.
Conradt, W. P., 299.
Conroy, R. J., 113, 121. 136, 158, 173.
Consani, M., 72.
Constable, D. H., 283.
Cook, A. A., 161, 162.
Cook, E. D., 35, 144.
Cook, H. T., 284.
Cook, G. V., 306.
Cook, L. F., 235.
Cook, M. T., 22.
Cook, S., 340.
Cook, W., 32.
Cook, W. C., 129, 136.
Cooke, G. R., 351.
Cooke, R. J., 64, 367.
Cooke, W. B., 20, 23, 27.
Coombe, B. G., 224.
Coon, J. M., 357.
Coons, G. H., 124, 129.
Coony, J. J., 213.
Cooper, B. A., 319.
Cooper, D. C., 110.
Cooper, G. S., 130.
Cooper, K. E., 332.
Cooper, K. W., 72.
Cooper, P., 37.
Cooper, W. C., 213.
Cooper, W. E., 280, 281.
Cooper, M. I., 58.
Cope, J. D., 258, 306.
Copeland, O. L., 235.
Copeland jr., O. L., 230.
Copien, 248.
Coppenet, M., 89.
Corbetta, G., 98.
Corden, M. E., 142.
Cordero di Montezemolo, M., 177.
Cordner, H. B., 15.
Cordón, F. M., 78.
Corkill, L., 142.
Corkins, J. P., 46, 262, 299.
Corl, C. S., 367.
Corliss, J. M., 64.
Cormack, M. W., 86, 126, 130, 138, 175.
Cormack, R. M. M., 379.
Cormany, C. E., 127.
Cormany, C. E. A., 126.
Cormany, C. L., 359.
Cornelius, J. A., 364.
Corning, H. M., 235.
Cornish, G. S., 141, 143, 145.
Cornman, J. F., 144.
Corns, W. G., 33, 130, 340.
Cornuet, P., 207, 211, 266.
Coronado Padilla, R., 45, 115, 360.
Correa, A. A. M., 9.
Cort, A. J., 23.
Cortes, I. A., 155.
Cortés, P. R., 107.
Cosmo, I., 227.
Cossette, M., 335.
Costa, A. S., 150, 172, 220, 291.
Costa, J. J., 94, 101, 360.
Costa, R. G., 295.
Costantino, G., 182.
Costello, D. F., 32.
Cottam, C., 372.
Cotterell, G. S., 280.
Cottier, W., 52, 227, 303.
Cotton, H. R., 298.
Cotton, R. T., 295, 299.
Cottrell, D. R., 299.
Coulombe, L. J., 313.
Coulter, L. L., 34, 340.
Count, R. D., 32, 33.
Coupin, A., 227.
Coupland, R. T., 30. 37.
Couranjou, A., 216.
Cours, G., 274.
Courtenay, V. D., 295.
Courth, 30.
Courtice, N., 225.
Courtney, W. D., 38.
Courty, C., 181.
Coutin, R., 139, 163, 204, 206, 272.
Couturier, A., 59.
Cowan, S. T., 18, 317.
Cowley, W. R., 319.
Cowperthwaite, W. G., 268.
Cox, C. E., 20, 21, 28, 165.
Cox, H. A., 258.
Cox, H. C., 15.
Cox, J. A., 50, 193, 227.
Cox, R. S., 239, 242.
Coyne, J. F., 246.
Cozzi, F. H., 258.
Crabb, R., 87.
Crafts, A. S., 1, 340, 344.
Cragg, J. B., 40.

Craig, H. A., 36, 314, 340.
Craighead, F. C., 242.
Crali, A., 258.
Crall, J. M., 131, 133.
Cralley, E. M., 104.
Cram, W. T., 263.
Crandall, B. S., 282, 356.
Crandall, P. R., 362.
Crane, J. C., 190.
Crang, A., 303.
Craven, J. G., 360.
Crawford, A., 145.
Crawford, K., 332.
Crawford, K. B., 151.
Crawford, R. F., 280.
Creighton, W. S., 72.
Cremer, M. C., 121.
Crête, R., 157.
Creuzburg, U., 180.
Crim, R. F., 341.
Crittenden, H. W., 160, 360.
Crom, B., 310.
Crombie, L., 363.
Cronin, T. C., 316.
Cronje, J. H., 360.
Cronshey, J. F. H., 101, 105, 169, 338.
Crooke, M., 247.
Cropley, R., 207.
Crosbie, C. J., 367.
Crosier, W., 91.
Crosier, W. F., 9, 165.
Cross, C. E., 34.
Crosse, J. E., 210.
Crowdy, S. H., 200, 335, 338.
Crowe, A. D., 198.
Crowe, S. M., 340.
Crowell, H. H., 64, 163, 165, 352.
Crowell, R. L., 360.
Crowley, D. C., 208.
Crowley, D. J., 207.
Croxall, H. E., 202.
Crucq, J., 319.
Cruickshank, I. A. M., 133, 151.
Cruickshank, J. A., 335.
Cruz, S. R., 13.
Cruzado, H. J., 343.
Cuff, K. A., 235.
Cuillé, L., 360.
Culbert, J. R., 267.
Culbertson, J. O., 151.
Culot, J. Ph., 23.
Culpin, C., 124.
Culver jr., A. J., 356.
Culver, W. H., 132.
Cumber, R. A., 42, 53, 151, 158, 326.
Cummings, R. H., 23.
Cummins, G. B., 25, 241.
Cunliffe, F., 46, 326.
Cunningham, C. E., 121, 345.
Cunningham, C. R., 296.
Cunningham, R. H., 368.
Čurkić, J., 332.
Curl, E. A., 242.
Curl, L. F., 277.
Currie, P. W. E., 72.
Curry, J. R., 234.
Curtis, O. F., 245.
Curtis jr., O. F., 15, 204, 340.
Curtis, P. J., 332.
Cuthbert jr., F. P., 163.
Cutkomp, L. K., 349.
Cutright, C. R., 184.
Čuturilo, St., 83.
Cuzin, J., 147, 305.
Czech, M., 16, 380.

Da Costa Lima, A., 65.
Da C. Paixão, J., 340.
Dadd, C. V., 130.
Dähn, 180.
Dähn, G., 175, 185.
Da Faixão, J. S., 27.
Danfiño, D. S., 94.
Da Fonseca, J. C., 217.
Da Fonseca, J. P., 65, 277.
D' Aguilar, J., 57.
Dahl, M. H., 319.
Dahlgren, G., 56.
Dahm, P. A., 51, 139, 349.
Dahms, R. G., 86, 106, 326, 352, 372.
Dahms, W. G., 306.
Daimler, K., 306.
Daines, R. H., 360.
Dalal, L. H., 349.
Dale, F. A., 306.
Dale, W. T., 291.
Dallas-Cope, J., 258, 306.
Dallemagne, M. J., 373.
Dallyn, S , 303, 366.
Dalmasso, G., 227.
Dalmeyer, W. H. M., 185, 193.
Dal Monte, G., 94.
Dame, 255.
Dame, F., 248.
Damle, V. P., 20.
Damon, S. C., 27.
Dana, B. F., 134.
Dana, R. H., 36.
Danguy, R., 321.
Daniel, H. A., 30.
Daniels, L. B., 61.
Daniels, N. E., 41.
Daniels, W. H., 144.
Danielson, L. L., 209.
Danilow, W. P., 210.
Dannfelt, M. J., 230.
Dannreuther, T., 315.
Dantas, B., 53.
Dantas, J. G., 275.
Daragan, 60.
Darcel, F. C., 213.
Darcheville, M., 16.
Darden jr., E. B., 46.
Darley, E. F., 16, 283.
Darling, H., 115.
Darlington, E. P., 210.
Darmis, J., 182.
Darpoux, H., 27, 92, 202, 221, 332.
Darrow, G. M., 212.
Darrow, R. A., 32, 34, 36.
Darsie jr., R. F., 372.
Darwin, W. N., 306.
Das, G. M., 289.
Da S. Barbosa, A. J., 277.
Da Silva, A. R., 94, 101.
Da Silva, G. A., 273.
D'Assis-Fonseca, E. C. M., 254.
Dastur, R. H., 275.
Datta, A., 286.
Dauberschmidt, K., 230, 234, 368.
Daulton, R. A. C., 38, 368.
Daum, J., 249.
Dautrebande, L., 372.
Davel, H. B., 212.
Daviaud, R., 360.
David, P., 61.
David, W. A. L., 360.
Davidson, J. H., 198, 209.
Davidson, O. W., 271.
Davidson, R. H., 262.
Davidsson, I., 9, 161, 264, 265.
Davies, D. E., 46, 47.
Davies, H. T., 112.
Davies, M.-E., 338.
Daviknes, T., 41.
Dávila, F., 365.
Davis, B. H., 169.
Davis, C., 235.
Davis, C. J., 271.
Davis, D., 150, 169, 313, 338, 356.
Davis, D. W., 41.
Davis, G., 297.
Davis, G. B., 297.
Davis, J. E., 83.
Davis, J. J., 42, 245, 349.
Davis, L. H., 156.
Davis, N. T., 52.
Davis, R. L., 140.
Davis, R. R., 143.
Davis, S. H., 230, 265.
Davison, R. M., 16, 197, 213.
Dawydow, P. N., 202.
Dawe, T. C. R., 319.
Dawes, B., 1.
Dawson, C. P., 268.
Dawson, G. T., 37.

Dawson, R. B., 141, 143.
Day, B. E., 132.
Day, F. H., 56.
D'Cruz, R., 103.
De, M. L., 46.
De A. Drummond, O., 287.
De Aguirre, J. M., 291.
Dean, F. P., 183, 185.
Dean, H. A., 53, 217, 277, 326.
Dean, R. W., 41, 204.
De Andrade, A. C., 169, 274, 301.
De Andrade, A. N., 303.
De Angeli, L., 363.
Dearborn, C. H., 340.
De Azevedo, O., 234.
De Azevedo Noronha, E., 174.
DeBach, P., 53, 217, 287, 326.
De Bont, A. F., 40, 373.
De Bont Hers, M. J., 40, 373.
De Brouwer, W. M. Th. J., 156, 175, 193.
De Bruyn Ouboter, M. P., 121.
Debus, P., 161.
De Camargo, G. E., 277.
De Capite, L., 7, 18.
De Cardona Velasquez, D., 269.
De Carvalho, T., 215.
Decastro, V., 282.
Deckenbrock, W., 299.
Decker, 137.
Decker, G. C., 105, 108, 349, 373, 379.
Decker, H. M., 317.
Decker, W. L., 13.
De Coene, R., 275.
Deep, I. W., 233.
De Farias, E. L., 53.
Deffner, U., 310.
De Figueiredo, E. R., 268.
De Fluiter, H. J., 81, 273.
DeFrance, J. A., 143, 340.
De Francquen, P., 311.
De Germond, D., 59.
De Geus, J. G., 289.
De Haas, 175.
Dehn, U. v., 258, 306.
Deighton, F. C., 21, 273.
De Jong, P., 289, 340.
De Jonge, C., 185, 202.
De Jong-Olthof, K., 311.
Dekking, F., 75.
De la Barreda, L., 84.
Delamare Debouteville, C., 9.
Delanoué, P., 53.
De la Rosa, J. G., 277.
Delatère, P., 258.
De Lattin, G., 65.
Delbard, G., 177.
Del Cañizo, J., 5, 30, 110, 127, 182, 212.
De Leon, D., 245, 285.
De Lesse, H., 64.
Delhaye, R., 78, 227.
Delhaye, R. J., 174, 363.
Delitala, A., 98, 158, 191, 200, 225, 303.
Della Beffa, G., 180.
Della Paolera, C., 360.
Delle Coste, A. C., 340.
Delmas, 46.
DeLong, D. M., 55, 117, 295.
De los A. Meléndez de la Garza, M., 138.
De Lourdes V. Borges, M., 78.
Deloustal, J., 317.
Delplace, E., 161.
Del Prado, F. A., 299.
Del Rivero, J. M., 65, 106, 155, 206, 217, 278, 322, 335, 349, 360.
Del R. Stefano, M., 221.
Delucchi, V., 326.
Del Valle, R. G., 317.
Delver, P., 157, 165.
Delwiche, C. C., 150.
Demaree, J. B., 208.
De Mas Solanes, R., 224.
Demel, J., 111, 112.
De Mello, I. F., 50, 323.
De Mendazo Roldán, M., 242.
De Menezes, O. B., 133, 177.
De Mesanza, B., 373.
De M. Maia, L. C., 230.
Démétriadès, S. E., 85.
Démétriadès, St. D., 23.
De Mire, P. B., 56.
Demolon, A., 211.
De Mol van Oud Loosdrecht, W. E., 264, 269.
Demortier, G., 16.
Demotte, E. L., 236.
Den Boer, P. J., 183.
Den Boer, W., 161.
Denffer, D. v., 41, 42.
Dengler, H. W., 221.
Denisen, E. L., 209, 340.
Denninger, C., 317.
Dennis, R. W. G., 20, 23, 25.
De Oliveira, S. J., 273.
Deom, J., 360.
Deonier, M. T., 284.
De Palma, L., 368.
De Payrebrune, G., 165, 365.
De Philippis, A., 317.
De Rancourt, E., 306.
De Rege, F., 103.
De Rezende-Pinto, M. C., 78.
Dermott, W., 198.
De Rosa, M., 193, 221.
De Rosbaco, A. M. M., 151.
Derscheid, L. A., 34, 89, 341, 368.
Desai, M. V., 294.
Desbois, A., 153, 161, 325.
Deschreider, A. R., 299.
Deshpande, R. B., 103.
Desjardins, P. R., 80.
De Sousa, J. S. I., 200, 204, 225.
De Sousa da Camara, E., 20.
De Sousa Dias, M. R., 20.
Desrosiers, R., 281.
Dessens, M. H., 13.
Deszyck, E. J., 113.
Detela, L., 13.
De Tella, R., 171.
De Tempe, J., 315.
De Toledo, A. A., 223, 287.
Detroux, L., 117, 151, 254, 256, 364.
Dettweiler, Ch., 297.
Deufel, J., 92.
De Urries, M. J., 142.
De Vay, J. E., 94, 96.
De Vecchi, G., 127.
Dever, D. A., 186.
Devet, D. D., 236.
De Viguerie, P., 185.
De Villiers, D. J. R., 303.
Devitt, J. J., 108.
De Vries, D. M., 30.
De Vries, J. P., 72.
Dewey, J. E., 187.
De Wilde, J., 376.
De Wilde de Ligny, H. J., 84, 273.
De Winkel, M., 355.
Dewisch, F., 204.
Dewitt, J. B., 357.
De Wolfe, T. A., 215, 304.
Dexter, R. W., 315.
De Young, J. S., 236.
De Zayas, F., 61.
DeZeeuw, A., 168.
DeZeeuw, D. J., 113, 131, 132.
Dhande, G. W., 19, 53, 272, 293, 324.
Dharmaraju, E., 285, 326.
D'Herde, J., 119.
Diachun, S., 147.
Diachun, St., 78.
Diakonoff, A., 65.
Dial, W. R., 359.
Dias, A. R., 310.
Dible, W. T., 137.
Di Caro, S., 133, 161, 175, 225, 264.
Dick, J. B., 276.
Dickens, L. E., 264.
Dicker, G. H. L., 181, 204, 210, 326.
Dickson, B. T., 341.
Dickson, J. G., 24, 92, 94, 100, 138, 142.
Dickson, R. C., 53, 206.
Dieguez, C. J., 230.
Diehl, 119.
Diehl, H. C., 295.
Diehl, R., 89.

Diehl, W. W., 23, 293.
Diekmahns, E. C., 152, 294.
Diem, J. J., 349.
Diener, T. O., 195.
Dierchen, W., 91, 299.
Dierick, G. F. E. M., 41, 185.
Dieter, C. E., 185.
Dietz, P. M., 80, 150.
Dietz, S. M., 23.
Digilio, A. P. L., 26.
Dijksterhuis, H. P., 202.
Dike, H., 115.
Diker, T., 39.
Di Lauro, B., 368.
Dillmann, E., 13.
Dillon, J. C., 236.
Dillon, K. W. N., 211.
Dillon, L. S., 58.
Dillon Weston, W. A. R., 90, 94, 202.
Dills, L. E., 364.
Di Martino, E., 43, 182, 217.
Dimmick, J. F., 72.
Dimmick, R. S., 236.
Dimond, A. E., 8, 81, 133, 168, 169, 170, 171, 313, 356, 371.
Dinesman, L. G., 256.
Dingler, M., 295.
Dingley, J. M., 23.
Dinkla, P. E., 368.
Dinter, F., 35.
Dionne, G., 75.
Di P. Torres, J., 155.
Dirks, V. A., 87.
Dirsh, V. M., 46, 49.
Ditman, L. P., 53, 135, 165, 171, 320.
Divjaković, J., 87.
Dixon, R. D., 306.
Dixon, S. E., 163.
Dixon, S. M., 324.
Djokoto, R. K., 281.
Djurić, J., 127.
Dmitriew, W. S., 341.
Do Amaral, J. F., 164.
Doane, C. C., 158, 159.
Dobbins, T. N., 280.
Dobie, N. D., 185, 295.
Dobrowolski, I. A., 16, 235.
Dobson, R. M., 57.
Dodd, L., 341.
Dodds, S. E., 295.
Dodge, A. A., 349.
Dodge, B. O., 20.
Dodge, H. R., 75.
Döhring, E., 41, 349.
Doeksen, J., 373.
Dölger, F. W., 306.
Doepel, R. F., 18, 98, 169, 266, 267, 293.
Doerell, E. G., 224.
Dörner, H., 299.
Dogger, J. R., 277, 278.
Doherty, T., 199.
Do L. Canticao, A., 10.
Dole, M. W., 10.
Dolgova, A. E., 59.
Domański, S., 239.
Domato, J., 216.
Domínguez Martin, J., 341, 368.
Dominick, C. B., 149.
Dominik, J., 248.
Domsch, M., 10.
Donà dalle Rose, A., 126.
Donie, V., 346.
Donk, M. A., 25.
Donnelly, E. D., 138.
Donnelly, M., 177.
Donohoe, J. F., 236.
Doolittle, S. P., 164.
Doran, W. L., 162, 262.
Dorey, A. C., 167.
Dorfschmid, M., 105.
Dormal, S., 364, 376.
Dorožkin, N. A., 117.
Dorschen, K. P., 16, 319.
Dorsey, C. K., 243, 244.
Dorst, H. E., 127, 160, 171.
Dorward, K., 373.
Dosse, G., 262, 326, 357.
Dos S. Vilar, J. M., 53.
Dostálek, J., 191.
Doty, R. E., 364.
Dotzenko, A. D., 33, 341, 366.
Douglas, E., 278.
Douglass, J. R., 127, 128, 129.
Doull, K. M., 53.
Doutt, R. L., 273, 326.
Dovaston, H. F., 29.
Dove, W. E., 299.
Dowden, Ph. B., 246, 326.
Dowdy, A. C., 158.
Downes, W., 43.
Downie, A. R., 34, 127.
Downie, W. A., 297.
Downs, L. E., 230.
Downs, W., 374.
Dowson, W. J., 5, 238.
Drachovská, M., 65.
Drake, D. C., 121.
Drayton, F. L., 264.
Drechsler, Ch., 22, 38, 133, 324.
Drees, E., 121.
Drees, H., 110, 185, 295, 335, 377, 378.
Drees, O., 313.
Dreibelbis, F. R., 10.
Dreiseitl, 119.
Dreiseitl, H., 204.
Dresden, D., 349.
Dresner, E., 182, 325.
Driskell, B. N., 11.
Driver, C. H., 239.
Drobnic, A., 184.
Dröge, C., 266.
Drooz, A. T., 252.
Drummond-Gonçalves, R., 317.
Dsiwak, M. F., 230.
Dubé, J. F., 16.
Dubinewitsch, B. N., 101.
Dubois, D., 299.
Dubois, K. P., 357.
Dubus, M., 139.
Duchaine, W. J., 306.
Duchanin, A. A., 29.
DuCharme, E. P., 220.
Ducker, S. C., 333.
Duclos, 373.
Duclos, M., 12, 319.
Dudley jr., J. E., 117, 135, 136.
Dündar, I. T., 51.
Dünnebeil, H., 320, 368.
Dürkheim, K. v., 110, 115.
Dürkes, 227.
Dürr, H. J. R., 72, 180.
Düzgüneş, P. Z., 206, 217, 268.
Düzgüneş, Z., 51, 53.
Duffield, P. C., 101.
Dufrénoy, J., 43.
Dugas, A. L., 291.
Duggen, H., 11.
Duiven, J. M., 246.
Dukeljskaja, N. M., 355.
Dullum, N., 303.
Dumanskij, A. W., 230.
Du Marchie Sarvaas, F., 379.
Dumas, J., 190.
Dumas, P., 318.
Dumbleton, L. J., 65, 139.
Dunbar, P. B., 379.
Duncan, C. G., 307.
Duncan, E. R., 137.
Dunegan, J. C., 175, 192, 200.
Dunford, E. G., 258.
Dunham, R. S., 30, 131, 151, 341.
Dunkelberg, G. H., 305.
Dunkler, O., 360.
Dunlap, V. C., 284, 288.
Dunleavy, J. M., 126.
Dunnam, E. W., 277.
Dunn, J. A., 135.
Dupias, G., 25, 94.
Dupius, C., 53.
Du Plessis, S. J., 92, 142, 225.
Dupree, M., 58, 65, 277.
Dupuis, C., 51, 326.
Duque, J. P., 282.
Durand, M. C., 46.
Durand-Reville, L., 286.
Durham, W., 374.
Durham, W. F., 358.
Durkić, J., 58.
Durocher, J., 373.
Durr, E., 341.

Dušková, F., 53.
Duspiva, F., 185, 373.
Dussel, J., 251.
Dusserd, R., 179.
Dustan, A. G., 268.
Dutky, S. R., 324.
Dutt, D. K., 293.
Dutt, N., 293.
Dutton, W. C., 341.
Dworezkaja, E. I., 234, 314.
Dworschack, R. G., 23.
Dwortsowa, E. I., 16.
Dye, D. W., 19, 169.
Dye, M. H., 273.
Dye, O., 341.
Dyer, R. A., 84.
Dyke, G. V., 364.
Dziendzielewsky, U., 332.
Džodić, M., 83.

Eads, C. O., 66, 266.
Eads, R. B., 41.
Earhart, R. W., 92, 98.
Easter, S. S., 295.
Easter, St. S., 299.
Easterling, C. E., 65.
Eastman, P. J., 121.
Easton, A. M., 57, 311.
Eastwood, T., 112, 117.
Eaton, C. B., 254.
Eaton, S. V., 153, 154.
Ebbe-Nyman, E., 153.
Ebben, M. H., 85, 171.
Eckblad, I., 303.
Eckroth, E. G., 127.
Eddins, A. H., 161, 162.
Eddy, B., 326.
Edelstam, C., 40.
Edelsten, H. M., 65.
Eden, W. G., 105, 139, 299, 377.
Edge, E. D., 304.
Edgecombe, S. W., 187.
Edgerton, L. J., 191, 198.
Edmunds, I. R., 295, 326.
Edmunds, L. R., 46.
Edmundson, W. C., 111.
Edney, L. E., 94.
Edwards, F. I., 158, 357, 376.
Edwards, G. R., 158, 162.
Edwards, R. W., 179, 318.
Efenditch, S., 147.
Efremowa, N. I., 295.
Eger, B. A., 236.
Eggink, H. J., 135.
Egle, K., 324.
Egler, F. E., 16, 341.
Eglite, A., 245.
Eglitis, M., 208, 267.
Egorow, N. S., 19.
Egorow, P. I., 227.
Ehara, K., 103.
Ehrenberg, L., 16, 17.
Ehrenberg, P., 13.
Ehrenhardt, H., 16, 127.
Ehrenpfordt, V., 346.
Ehrhardt, 349.
Ehrlich, J., 309.
Eibel-Eibersfeldt, I., 75.
Eichenmüller, J. J., 20.
Eichler, W., 1, 41, 84, 159, 262, 318, 360.
Eickstedt, H. v., 127, 197, 335, 346, 368, 378.
Eide, C. J., 22, 113, 115, 165.
Eide, P. M., 210.
Eidmann, F. E., 256.
Eike, H., 119.
Einset, O., 202.
Eisentraut, A., 74.
Eisentraut, M., 75.
Eisner, T., 72.
Eitel, W. J., 45.
Ejsing, G., 113, 159, 202, 204.
Ekman, P., 12.
Elagin, I., 234.
Elam, F. L., 331.
El-Azzazi, K., 16.
Elder, W. C., 34.
Elle, G. O., 89.
Ellenby, C., 118.
Ellenwood, C. W., 179, 197.
Ellertson, F. E., 194.
Elliott, C. S., 93.
Elliott, E. S., 137.
Elliott, F. C., 274, 276, 278.
Elliott, M., 364.
Elliott, R. R., 236.
Ellis, D. E., 133, 169.
Ellison, J. H., 112, 297.
Ellwood, C. C., 274.
Elmer, H. S., 217.
Elomaa, A., 101.
Elson, G. W., 27.
Elßmann, H., 241.
Elter, L., 168, 266.
Elton, E. T. G., 230, 246, 254, 326.
Elwell, H. M., 143.
Ely, R. E., 373.
El-Ziady, S., 327.
El-Zoheiry Bey, H. E. M. S., 278.
Embleton, T. W., 177, 213.
Emerson, A. E., 50.
Emery, G. A., 295.
Emge, R. G., 165, 168.
Emilsson, B., 113, 121, 122.
Emlen, J. T., 77.
Emmel, 254.
Emmel, L., 349.
Emmel, M. W., 31.
Emond, R. E., 366.
Empson, D. W., 163.
Emsweller, S. L., 258, 307.
Encke, F. v., 198.
Ender, 119.
Enders, A., 373.
Endo, T., 284.
Endrigkeit, A., 158, 163.
Eng, R. L., 373.
Enge, G., 32.
Engel, 74, 75, 194, 299, 368.
Engel, H., 59, 194, 299.
Engel, R. E., 34, 143.
Engelhard, J. 101, 368.
Engelhard, J. M., 258.
Engesser, H., 368.
Englert, 75.
Englerth, G. H., 232, 260.
English, H., 190, 223.
Enikeev, S. G., 124.
Enin, T. K., 89.
Enjoji, S., 135.
Ennis, W. B., 16, 319.
Ennis jr., W. B., 131, 346.
Enzmann, E. V., 72.
Epps, J., 343.
Epps, W. M., 165.
Epstein, H. T., 79.
Ergene, S., 46.
Ergle, D. R., 275.
Erickson, C., 32.
Erickson, L., 217.
Erickson, L. C., 198, 212, 213, 214, 303, 341.
Erisman, A., 331.
Erkılıç, S., 39, 46, 57, 378.
Erkul, E., 278.
Erkut, A., 335, 349.
Erlenbach, M., 335.
Ernould, L., 124, 129.
Ernst, D., 264.
Ernst, E., 50.
Ernst, R., 65.
Erschow, I. A., 236.
Erschowa, I. P., 75.
Erteld, W., 239.
Ervin, J. O., 10, 322.
Erwin, D. C., 138, 175.
Erwin, W. R., 361.
Esch, F., 295.
Eschenhagen, 89.
Español Coll, F., 58.
Essig, 256.
Essig, E. O., 43, 53, 160, 167, 174.
Esterberg, L. K., 251.
Esther, H., 378.
Estienne, A., 12.
Evanko, A. B., 36, 37.
Evans, E., 332.
Evans, E. E., 318.

Evans, E. F., 13.
Evans, E. J., 46.
Evans, F. R., 254.
Evans, G. O., 41, 284, 326.
Evans, H. L., 375.
Evans, J. A., 110, 115, 168, 170.
Evans, J. W., 43, 331.
Evans jr., E. A., 9.
Evans, M., 30.
Evenhuis, H. H., 326.
Evenius, 373.
Everett, C. F., 346.
Everly, R. T., 145.
Everson, L. E., 36.
Everson, R. G., 345.
Everts, A. B., 235, 236.
Every, R. W., 176, 221.
Ewart, W. H., 185, 217, 218.
Ewer, D. W., 295.
Ewing, A., 242.
Ewing, J. T., 101.
Ewing, K. P., 278.
Ext, W., 115, 299, 368, 373, 378.
Eyerdam, W. J., 25.

Faber, W., 59, 110, 227, 373.
Fabian, 295.
Fabiani, L., 110.
Fabre, J. H., 46.
Fabre, R., 16, 373.
Fabricatore, J. A., 224, 273.
Faes, H., 1.
Fagnani, G., 177, 319.
Fahey, J. E., 357, 375.
Faillet, P., 361.
Fairbanks, G. E., 368.
Faivre, M., 177.
Faivre-Amiot, A., 27, 92, 332.
Falch, J., 177.
Faldini, J. D., 65, 324.
Fales, J. H., 48.
Falk, K., 169.
Falkenschtejn, B., 355.
Falkenschtejn, B. J., 256.
Fallis, K. E., 37, 162.
Fallowfield, J., 210.
Faria, E. R., 94.
Farinha, M., 311.
Farmer, A., 177, 287.
Farnham, M., 34.
Farrar, M. D., 278, 315.
Farrell, E. P., 299.
Farrier, M. H., 267.
Farský, R., 53.
Farstad, C. W., 105, 106.
Farwell, E. D., 318.
Fassuliotis, G., 40, 118.
Faugère, M., 236.
Faulkner, L. R., 278.
Faure, J. P., 89.
Favard, P., 72, 175.
Faville, L. W., 19.
Favret, E. A., 97.
Fay, R. W., 360.
Fear, G., 368.
Feazell, G. D., 284.
Fedder, M. L., 72.
Feder, A. M., 264.
Feder, W. A., 270, 357.
Federici, E., 155.
Fedorinčik, N. S., 25, 324.
Fedorov, A. A., 32.
Fedotov, D. M., 105.
Fedrunow, W., 236.
Feichtmeir, E. F., 356, 360.
Feild, R. B., 320.
Feinstein, L., 364, 366.
Feis, N., 368.
Feistritzer, W., 122.
Felber, W., 30.
Feldman, A. E., 52.
Feldman, A. W., 366.
Feldmesser, J., 40, 118, 119, 171.
Feldstein, M., 374.
Felenczak, W., 236.
Felgner, I., 312.
Felix, E. L., 113, 208.
Fellows, H., 43, 109, 318.
Felten, H., 76.
Fenaroli, L., 103.
Fenili, G. A., 62.
Fennah, R. G., 52.
Fenne, S. B., 109, 141, 146.
Fennessy, B. V., 323.
Fenska, R. R., 230.
Fenton, F. A., 1, 43, 86, 106, 278, 326, 349.
Fenwick, A., 236.
Fenwick, D. W., 118.
Fergus, C. L., 239, 243.
Ferguson, G. R., 295.
Ferguson, P., 109.
Ferguson, W., 157, 170, 346, 359, 366.
Ferguson, W. C., 110.
Fernandez Valiela, M. V., 1, 122.
Fernando, H. E., 46, 350, 360.
Fernando, M., 110.
Feron, 185.
Féron, M., 182, 194, 217.
Ferraguti, A., 194.
Ferraro, A., 108.
Ferreira, L. A., 341.
Ferreira, M. C., 59.
Ferrell, W. K., 236, 244.
Ferrière, Ch., 181, 251, 326, 327.
Ferris, G. F., 53.
Ferris, R. S., 53.
Fertig, S. N., 341.
Feucht, O., 230.
Feucht, W., 262.
Fey, H., 1.
Fezer, K. D., 85.
Fickewirth, E., 108.
Fidler, H. E., 374.
Fidler, J. C., 303.
Fiedler, C., 62.
Fiedler, O. G. H., 318.
Fielding, A. H., 201.
Fields, M., 132.
Fields, R., 210.
Fife, L. C., 278.
Figueroa P., A., 86, 281.
Filatova, T. I., 248.
Fileni, E., 350.
Filiptschenko, I. M., 208.
Filmer, R. S., 102, 136, 321, 354, 373.
Filocamo, E., 112.
Findlay, W. P. K., 241, 258.
Findley, W. R., 99.
Findley jr., W. R., 99.
Finholt, R. W., 258, 307.
Fink, G., 275.
Finkner, V. C., 94.
Finlay, A. C., 334.
Finlay, K. W., 172.
Finlayson, D. G., 62, 158, 159.
Finlayson, L. H., 72.
Finney, D. J., 350.
Fiori, G., 155.
Fiorito, G., 204, 206.
Fischer, 89, 115, 146, 355.
Fischer jr. C. W., 311.
Fischer, E., 65, 221.
Fischer, F., 239, 242.
Fischer, G., 82.
Fischer, G. J., 94.
Fischer, G. W., 25, 88, 94, 141, 142.
Fischer, H., 11, 61, 76, 245.
Fischer, R., 11, 25, 177, 197.
Fischer, W., 358, 360.
Fischnich, 110.
Fisher, A. L., 360.
Fisher, C. E., 36, 341.
Fisher, C. K., 303.
Fisher, D. V., 304.
Fisher, E. E., 179, 191, 267.
Fisher, F. E., 213, 217, 327.
Fisher, H. G., 106.
Fisher, H. H., 133.
Fisher, R. C., 258, 307.
Fittschen, H., 208.
Fitzgerald, C. D.,
Fitzgerald, O. A., 236, 350.
Fitzhugh, O. G., 357.
Fitzpatrick, R. E., 212.
Fitzwater, W. D., 76.
Fitzwater jr., W. D., 184, 185, 355.

Fjelddalen, J., 41, 110, 183, 185, 322, 350.
Flach, 181.
Flanders, St. E., 53, 72, 155, 165, 217, 247, 327.
Fleischel, H., 35.
Fleischmann, C., 266.
Fleming, J. P., 375.
Fleming, W. E., 5, 59.
Flemion, F., 135.
Flentje, N. T., 20, 191.
Flerow, S. K., 230.
Fleschner, C. A., 217, 287, 322.
Fleschner, Ch. A., 327.
Fletcher, D. G., 94.
Fletcher, F. C., 368.
Fletcher, F. W., 105, 321.
Fletcher, J. H., 358.
Fletcher, W. A., 212, 287.
Flik, H. M., 115.
Flipse, L. P., 186, 202, 207.
Flock, R. A., 229.
Flor, H. H., 151.
Flori, G., 155.
Florow, D. N., 13.
Florowskij, A. M., 13.
Floyd, E. H., 284.
Flugel, H., 256.
Fluke, C. L., 186, 194.
Fößleitner-Karl, H., 80, 124.
Fogliani, G., 155, 207, 229.
Foister, C. E., 113, 297.
Folk, A., 114.
Folsom, D., 88, 91, 111, 112, 122, 209, 297, 356.
Foltin, H., 65.
Foltýn, J., 59.
Fonseca, J. P., 62.
Fontaine, T. D., 348.
Fontana, P., 124.
Foote, F. J., 212.
Forbes, J., 72.
Ford, A., 267.
Ford, E. B., 65.
Ford, H. W., 213, 220.
Ford, O. W., 197.
Forde, H. I., 222.
Foreman, B., 278.
Foret, J. A., 267.
Forgash, A. J., 350.
Fors, A. L., 291.
Fors Diaz, A. L., 13.
Forselius, S., 76.
Forsslund, K. H., 65, 251.
Forster, W. A., 10.
Fort, W. Z., 211.
Forte, P. N., 130, 227.
Forti, G., 122.
Foschi, S., 200.
Foss, W. M., 236, 258, 307.
Foster, H. H., 191, 193.
Foster, J. R., 32, 341.
Foster, L. R., 175.
Foster, R. E., 230.
Foster, R. L., 320, 341.
Foster, R. M., 27.
Foster, W. R., 3.
Fouarge, J., 256.
Fournel, J., 373.
Fowler, M. E., 243, 244.
Fox, S. W., 332.
Fracker, S. B., 43.
Fraenkel, G., 58.
Francé-Harrar, A., 10.
Francke, A., 87.
Francke-Grosmann, H., 43, 63, 248, 254, 258, 261.
Franclemont, J. G., 65.
Franco, E., 53, 284.
Frandsen, N. O., 136.
Frank, F., 76, 256, 330, 355.
Franken, E., 13.
Frankenfeld, J. C., 299.
Franklin, H. J., 210.
Franklin, J. J., 31.
Franklin, M. T., 38, 273.
Franklin, R. C., 236.
Franklin, W. M., 139.
Franklin, W. W., 137.
Frankton, C., 33.
Francisco, D., 346.
Frans, R. E., 141.
Fransen, J. J., 251, 368.
Franssen, C. J. H., 274, 285, 293, 322.
Fransson, P., 32.
Franz, E., 65, 254, 272, 295.
Franz, J., 119, 323.
Fraselle, J. V., 282.
Fraser, D. L., 238.
Fraser, H., 177.
Fraser, L., 220.
Fraser, L. R., 53, 210, 215, 220, 264, 268, 324.
Fraser, R. D. B., 80.
Fratkin, A., 352.
Frazier, F., 236.
Frazier, N. W., 196, 229.
Frawley, J. R., 357.
Fraymouth, J., 318.
Frear, D. E. H., 1, 364.
Frecha, J. H., 91.
Freckmann, 10.
Frederick, L., 7.
Frederiksen, P. S., 151.
Frediani, D., 62, 106, 112.
Free, M., 34, 350.
Freed, V. H., 143.
Freeman, G. G., 324.
Freeman, J. A., 295, 299, 307.
Freeman, J. F., 34.
Frei, M., 7.
Freiberg, S. R., 132.
Freire, J. R. J., 138.
Freitag, J. H., 165, 229.
French, O. C., 368.
French, R. G., 104.
Frese, 10.
Freter, R., 347.
Freuding, O., 234.
Frey, A., 122.
Frey, W., 295, 299.
Frézal, P., 106, 212, 378.
Frezzi, M. J., 287.
Frick, K. E., 70, 194, 227.
Frick, M., 157, 176.
Fricker, A., 120, 299, 355, 368.
Frickhinger, H. W., 65, 186, 299, 335, 368.
Friedemann, H., 65.
Friederich, J. C., 151.
Friederichs, K., 327.
Friedman, B. A., 167, 303.
Friedmann, I., 311.
Friedrich, G., 176.
Friend, A. H., 357.
Friend, R. B., 350, 368.
Friend, W. G., 173.
Frigerio, J. C., 155.
Frings, H., 43, 52.
Fritsch, H., 350.
Fritsch, R. H., 74.
Fritz, C. W., 243.
Fritzsche, R., 154, 167, 177, 178, 197, 303.
Fröhlich, H., 201, 203.
Frömming, E., 40, 41, 350.
Froeschner, R. C., 295.
Fröier, K., 151.
Fromm, F., 311.
Frommeld, 300.
Fronk, W. D., 280.
Frost, S. W., 43, 52, 318.
Fry, P. R., 141, 164, 167, 268.
Fuchs, W. H., 87, 89.
Fürst, H., 335, 338, 361.
Fuhrmann, R., 373.
Fujii, H., 94, 97.
Fujikawa, T., 139, 165.
Fujioka, Y., 84.
Fukano, H., 104, 130.
Fukatsu, R., 104.
Fukazawa, N., 106.
Fukuda, J., 186, 204, 217.
Fukunaga, K., 356, 361.
Fukuyama, S., 334.
Fukuzumi, T., 258, 324.
Fulkerson, J. F., 186, 190.
Fullaway, D. T., 182, 322, 327.
Fuller, F. M., 278.
Fulton, B. B., 46.
Fulton, E. F., 341.

Fulton, J. P., 165, 207, 208, 211.
Fulton, R. A., 158, 354, 360, 368, 376.
Fulton, R. H., 207, 208, 211.
Fulton, R. J., 207.
Fulton, R. W., 141, 148, 150, 271, 333.
Fults, J., 112.
Fults, J. L., 34, 112, 370.
Furbush, P. B., 34.
Furr, R. E., 65.
Furtick, W. R., 143.
Furukawa, H., 72.
Furutani, Y., 132, 135.
Futrell, M. C., 93.

Gabotto, L., 225.
Gadd, G. O., 307.
Gaddis, C., 310.
Gäbler, H., 230, 246, 254, 327.
Gärtel, W., 227.
Gaertner, E. E., 29.
Gäumann, E., 8, 16, 20, 25, 27, 170, 314.
Gagarin, E., 13.
Gage, J. C., 357.
Gaines, J. C., 47, 54, 106, 107, 278, 279, 350.
Gaines, R. C., 278, 280.
Gainey, P. L., 16, 360.
Gainor, C., 267.
Gaiwad, S. R., 318.
Gallagher, J. E., 34, 143.
Gallay, R., 59, 223.
Gallegly, M. E., 115, 170.
Galley, R. A. E., 366, 373.
Gallie, R. J. L., 115, 122.
Gallo, D., 217.
Gallucci, M. M., 191, 271.
Gallup, A. H., 346.
Gallwitz, 368.
Gallwitz, K., 368.
Galoux, A., 254.
Gambaro, P., 206.
Gamble, S. J. R., 16.
Gambogi, P., 334.
Gambrell, F. L., 321.
Gammon, C., 37.
Gammon, E. T., 360.
Gammon, N., 112.
Ganong, R. Y., 117, 121.
Ganter, 300.
Gaprindaschwili, N. K., 357.
Garcés O., C., 356.
García B., C., 281.
García Diaz, E., 256.
García Escudero, P., 236.
Garcia Guillinta, M. J., 360.
Garcia-Gutierrez, A. G., 335.
García Orad, A., 122.
Gard, W., 13.
Gardiner, B. O. C., 163, 327.
Gardiner, J. E., 357.
Gardner, C. A., 30, 36, 37.
Gardner, E. J., 172.
Gardner, L. K., 236.
Gardner, L. R., 350.
Garese, P., 89, 126, 292, 341.
Garman, P., 186, 190, 198, 204, 271, 368.
Garmus, R. D., 216.
Garrard, W. M., 275.
Garren, K. H., 134.
Garrett, S. D., 10, 241.
Garriss, H. R., 38, 149.
Garzia, A., 217.
Gasiorkiewicz, E. C., 27, 110, 159.
Gaskill, J. O., 297.
Gasser, F., 186.
Gasser, R., 186, 350, 360.
Gaßner, G., 94.
Gassner, J. K., 165, 303, 378.
Gaßner, K., 177.
Gaston, H. P., 304.
Gaston, J., 46.
Gatehouse, R. C., 289.
Gates, D. E., 350.
Gatin, A., 364.
Gatineau, M., 373.
Gattani, M. L., 25, 380.
Gattinara, R. C., 368.
Gattis, J. L., 346.
Gaudchau, M. D., 76, 355.
Gaudineau, M., 200, 225.
Gaudron, J., 346.
Gaul, A. T., 72.
Gaulden, M. E., 46.
Gautheret, R., 7, 19.
Gautheret, R. J., 19, 33, 90.
Gauze, G. F., 332.
Gawrilowa, W. M., 236.
Gay, F. J., 50, 51.
Gayed, S. K., 276.
Gayford, G. W., 78.
Gazzo, J., 365.
Gdanitz, L. C., 169.
Geddes, C. H., 271.
Geddes, W. F., 298, 300.
Geelen, T. E. J. M., 208.
Geer, W. C., 271.
Geering, Q. A., 106.
Geete, E., 236.
Gefahrt, J., 307.
Geffen, D. H., 273.
Geffray, J., 368.
Geffray, Y., 368.
Gegenwart, W., 13.
Geidel, H., 110.
Geier, P., 41, 186, 227, 318, 327.
Geiger, R., 230.
Geile, A. F., 317.
Geise, W., 256.
Geitmann, Ch., 120.
Gelardo, R. P., 360.
Gelein, C., 137.
Gelin, O., 139.
Gelin, O. E. V., 12, 88, 111.
Gemmell, G. D., 10.
Généreux, H., 110.
Génin, G., 341, 358, 360.
Genkel', P. A., 8, 13, 89.
Gennburg, O., 236.
Genter, L. G., 204.
Gentile, G., 53, 186, 350.
Gentilucci, T., 65, 181.
Gentsch, 371.
Genzer, E. P., 209.
Genzmer, 110.
George, J., 259.
George, R. A. St., 263.
Georghiu, G. P., 217.
Georgijevic, E., 65.
Geortay, G., 282.
Geraldson, C. M., 160.
Gerasimow, B. S., 224.
Gerber, A., 126.
Gerber, H., 178.
Gerber, R., 330.
Gerdemann, J. W., 137, 138.
Gerebtzoff, M. A., 373.
Gerhardt, F., 198.
Gerhardt, P. D., 72, 217, 221.
Gerhart, M. D., 360.
Gerhold, N. R., 126, 138.
Gericke, S., 16.
Gerland, 307.
Germ, H., 138.
Germano, A., 361.
Gerretsen, F. C., 12.
Gerrits, C., 186.
Gerritsen, J. D., 183, 327.
Gersdorf, 127, 145.
Gersdorf, E., 62, 74.
Gersmann, H. R., 346, 358.
Gerstner, W., 160.
Gertler, S. I., 109, 365.
Gervay, V., 363.
Gešele, E. E., 98, 202, 341.
Gesell, S. G., 51.
Gessel, T., 125.
Geyer, B., 341.
Gheorghianov, V., 94.
Ghidini, G. M., 127.
Ghillini, C. A., 84, 126, 191, 194.
Ghosh, J. J., 100.
Ghose, R. L. M., 99.
Giacometti, D. C., 220.
Gianfagna, A. J., 34.
Giang, P., 376.

Giannotti, O., 278, 350, 351.
Giardini, A., 127.
Giban, J., 355, 373.
Gibler, J. W., 106.
Gibson, D. R., 137.
Giddings, N. J., 123, 129.
Gieseker, L. F., 303.
Gigante, R., 147, 150, 191, 267.
Gilbert, C., 379.
Gilbert, E. E., 62.
Gilbert, F. A., 11, 84.
Gilbert, J. C., 171.
Gilch, A., 13.
Giles, G. R., 12.
Giles, J. E., 171.
Giles jr., N. H., 370.
Gilgut, C. J., 267.
Giljarow, M. S., 61, 106.
Gill, D. L., 38.
Gill, L. S., 243.
Gilles, F., 307.
Gillespie, J., 236.
Gillespie, W. A., 332.
Gillman, H., 4.
Gillogly, L. R. A., 57.
Gilman, J. C., 3, 20, 23, 243, 311.
Gilmer, R. M., 196.
Gilpatrick, J. D., 79, 82, 264.
Ginnasi, G., 13.
Ginsburg, J. M., 360, 373.
Ginsburg, L., 303.
Gipple, O. B., 53.
Giraldo, C., 36.
Girard, 355.
Gisiger, L., 141.
Gitterman, C. O., 23.
Giulianelli, E., 62, 205.
Giunchi, P., 43.
Given, B. B., 59, 327.
Gjaerum, H. B., 172, 338.
Gladyschewskij, M. K., 234.
Glanzmann, O., 330.
Glass, E. H., 65, 204.
Glasser, R. F., 329.
Glathe, 332.
Glatzebrook, J. H., 262.
Glemmestad, E., 113, 368.
Glemser, W., 368.
Glendening, G. E., 341.
Glendenning, R., 40, 70.
Glennie, D. W., 307.
Globa-Michajlenko, D. A., 13, 273.
Glover, L. C., 166.
Glover, P. M., 289.
Głowacki, J., 248.
Gluck, B. L., 72.
Gnagy, R. M., 240.
Goarin, P., 99.
Godan, D., 153, 156, 161, 176.
Godbout, F., 202.
Goddard, W. H., 107.
Godfrey, G. H., 165, 212.
Godoy, E. F., 151.
Göbelez, M., 84.
Göksel, N., 16, 20, 25, 27, 346.
Gönnert, R., 78.
Goerlitz, H., 111.
Gößwald, K., 72, 246, 327.
Göttel, L., 177.
Götz, 227.
Götz, B., 223, 227, 228.
Götze, J., 251.
Goffart, H., 38, 118, 124, 128, 129.
Goffe, E. R., 70.
Goggans, J. F., 241.
Goguadze, M. N., 228.
Goheen, A. C., 208.
Goidànich, A., 246, 327.
Goidànich, G., 18, 78, 179, 184, 191, 196, 198, 200.
Goile, H., 103.
Gokhale, V. P., 25, 94.
Gold, A. H., 150, 270.
Gold, H., 270.
Goldblith, S. A., 275.
Goldie-Smith, E. K., 22.
Goldman, D. E., 16.
Goldman, M. C., 327.
Goldsmith, M., 281.
Goldsworthy, M. C., 192, 200.
Gołębiowska, Z., 300.
Golightly, W. H., 106.
Goll, M., 27.
Golovianke, Z. S., 246.
Goltsmaier, O. P., 186.
Golubinskij, I. N., 152.
Gómez Clemente, F., 13, 65, 106, 155, 182, 186, 206, 213, 217, 218, 278, 327, 350.
Goncalves, R. D., 192.
Gonçalves de Lima, O., 332.
Gondo, M., 150.
Gonggrijp, J., 341, 366.
González, C., 282.
González Gallardo, A., 364.
González Mendoza, R., 72, 182, 282, 287, 293.
González Regueral, F., 213.
Gooch, R. M., 308.
Good, H. M., 232, 241.
Goodchild, A. J. P., 281.
Gooden, E. L., 58, 324.
Goodey, J. B., 38, 264.
Goodey, T., 38.
Goodfellow, V. V., 208.
Goodhue, L. D., 46.
Goodman, J. J., 300.
Goodwin, T. W., 20, 46.
Goodwin-Bailey, K. F., 87, 300.
Goossen, 368.
Goossen, H., 76, 110, 300, 368.
Gopalkrishnan, K. S., 170.
Gorbunowa, S., 341.
Gordon, D. R., 299.
Gordon, H. T., 360, 373.
Gordon, N., 346.
Gordon, R. E., 19.
Gordon, W. L., 27, 99.
Gore, U. R., 93.
Goris, A., 7.
Gorlenko, M. W., 100, 165.
Gorlenko, S. W., 117.
Gorrie, R. M., 289.
Gorschkow, M. A., 230.
Gorter, A. J., 65.
Gorton, B. S., 213.
Gorton, G. R., 272.
Gothe, H., 246, 327.
Goto, H., 99.
Goto, K., 27, 104, 284.
Goto, S., 91, 99, 106, 109, 284.
Gottlieb, D., 10, 169, 331, 332, 333.
Gottwald, A., 186.
Gough, H. C., 135, 181.
Gould, C. J., 267, 268, 269, 341.
Gould, E., 186, 197.
Gould, G. E., 158.
Goustard, M., 46.
Gouttier, P., 321.
Goven, M., 121.
Govi, G., 40, 95, 155, 164, 179, 192, 200, 303.
Govindan, P. R., 168.
Govindu, H. C., 22, 95.
Gowen, A. S., 266.
Goytia, A., 360.
Grabe, A., 65.
Grace, J., 191.
Gracie, W. M., 256.
Graefenhan, R., 307.
Grafius, J. E., 87.
Graham, C., 194.
Graham, D. P., 244.
Graham, H. E., 236.
Graham, J. H., 133, 142.
Graham, K., 248, 251.
Graham, K. M., 161.
Graham, S. A., 1, 246.
Graham, T. W., 38, 147, 149, 278.
Grainger, J., 118, 167, 262.
Grainger, Th. H., 19.
Gram, E., 1, 86, 315.
Gram, K., 318.
Grancini, P., 103.
Grand, E. F., 355.
Grandfield, C. O., 137.
Grandi, G., 43, 223.
Grandori, L., 366.
Grandori, R., 87, 108, 300, 322, 350.
Graniti, A., 225.
Grano, Ch. X., 235.
Granovsky, A. A., 57, 65.

Granström, B., 341, 366.
Grant, H. J., 72.
Grant, J., 252.
Grant, R., 291.
Grant, T. J., 220.
Graser, H. I., 179.
Graser, H. L., 221.
Grassi, G. V., 27.
Grassé, P. P., 50.
Grasso, V., 16, 93, 95, 243.
Grau, F. V., 35, 141, 143.
Gravatt, F. G., 244.
Gravatt, G. F., 221, 239, 286.
Graves, A. H., 221.
Gray, G. P., 368.
Gray, H. E., 315, 318.
Gray, J. H., 341.
Gray, K. W., 210, 211.
Gray, R. A., 79, 287.
Grayson, J. M., 46.
Greaves, T., 51.
Green, G. J., 25, 95.
Green, H., 262.
Green, H. B., 72, 194.
Green, H. N., 376.
Green, J., 27, 58, 311, 327.
Green, J. M., 275.
Green, K. R., 36, 37.
Green, N., 364.
Green, R. J., 28.
Greenberg, A., 218.
Greenberg, H., 364.
Greene, H. C., 20.
Greenfield, I., 143.
Greenleaf, C. H., 171.
Greenlee, R. W., 356.
Greenslade, R. M., 1, 341.
Greenwood, A. D., 29.
Greenwood, D. A., 372.
Greenwood, D. E., 106, 360.
Greenwood, M., 281.
Gregg, M., 19.
Gregg, R. E., 72.
Grégoire, C., 350.
Gregor, F., 73, 252.
Gregor, J. W., 115, 122.
Gregory, K. F., 138, 332.
Gregory, P. H., 20, 121, 318.
Gregson, J. D., 41.
Gremmen, J., 23.
Grente, J., 201, 221, 222.
Gressitt, J. L., 61.
Gries, G. A., 91.
Griffin, E. L., 379.
Griffin jr., E. L., 364.
Griffin, J. A., 284.
Griffioen, K., 307.
Griffiths, D. J., 93.
Griffiths jr., J. T., 213.
Griffiths, J. T., 213, 218, 219.
Grigorjew, G. W., 234.
Grigorjewa, T. G., 361.
Grigsby, B. H., 143, 208, 341, 373.
Grimaldi, J., 281.
Grimm, G. R., 94.
Grimm, W. C., 34.
Grinols, W., 248.
Griot, M., 95.
Grison, P., 252.
Grison, P. A., 120.
Grisvard, P., 230.
Grivaz, 245.
Grizenko, M. W., 236.
Grob, H., 350, 366.
Grøntved, P., 341.
Grogan, R. G., 167, 168.
Groh, 297.
Grollnigg, 248.
Groman, E., 95.
Gros, R., 356.
Grosch, D. S., 327.
Groschke, F., 252, 307.
Grosjean, J., 192, 335.
Gross, N. H., 317.
Gross, S. R., 23.
Grossbard, E., 332.
Große-Lümern, 77, 115, 117.
Großmann, 163.
Grosso, J. J., 146.
Grote, R., 11.
Groves, A. B., 176.
Groves, J. R., 41. 181, 206.
Groves, J. W., 23, 134, 264.
Grümmer, G., 156.
Grütz, O., 5.
Grundmann, A. W., 72, 254.
Guba, E. F., 170, 264.
Gubanow, G., 275.
Guccione, G., 154.
Guck, D. G., 236.
Gudnason, A., 341.
Günthard, H. H., 333.
Günthart, E., 350, 370.
Gürcan, A., 23.
Güssow, H. T., 5.
Guha, A., 46.
Guicherd, P. P., 218.
Guilbeau, S., 284.
Guillaume, A., 43, 341.
Guillemat, J., 113, 293.
Guillemat, M. J., 275.
Guizzardi, G., 184.
Guljaew, G. W., 97.
Guljaew, W. W., 230, 239.
Gunar, I. I., 154.
Gunderson, H., 76, 106, 107.
Gunkel, W. W., 156.
Gunn, D. L., 46, 47.
Gunn, J. W., 50.
Gunn, L., 47.
Gunn, W. B., 72.
Gunter, A. C., 278, 300.
Gunthart, E., 110.
Gunther, F. A., 216, 217, 357.
Guntz, M., 96, 115.
Gupta, B., 348.
Gupta, B. D., 291.
Gupta, B. M., 82.
Gupta, C. M. S., 352.
Gupta, M., 93.
Gupta, S. C., 311.
Gurney, A. B., 43, 47, 327.
Gurr, L., 106.
Gusovius, H., 256.
Gustafson, C. A., 236.
Gustafson, F. G., 346.
Gustafsson, Å., 16, 17.
Guston, D., 53.
Guthrie, J. W., 110.
Gutierrez, M. E., 147, 150.
Gutsewitsch, S. A., 25.
Gutter, Y., 213.
Guttenberg, H. v., 95.
Guttman, R., 159.
Guyot, A. L., 311.
Guyot, H., 287.
Guyot, L., 25, 95.
Guyton, T. L., 243.
Guzman, R. P., 230.
Gwynne, D. C., 202.
Györfi, J., 230, 327.
Gyrisco, G. G., 140, 145, 361, 374.

Haag, A., 297.
Haagen-Smit, A. J., 16.
Haarløv, N., 248.
Haas, A. R. C., 214.
Haasis, F. A., 268.
Haber, A., 230, 350.
Hachenberg, F., 230.
Hack, J., 85, 171.
Hadaway, A. B., 349, 359.
Haddox, C. H., 23.
Hadiwidjaja, T., 293.
Hadley jr., B. L., 65, 249.
Hadley, Ch. H., 59.
Hadli, S. N., 48.
Hadlington, P., 249, 254.
Hänsel, H., 89.
Haenseler, C. M., 293.
Härdtl, H., 153.
Haeussler, G. J., 86, 380.
Hafez, M., 327.
Hafiz, A., 138, 225, 274.
Hafner, F. H., 131.
Hagan, A. B., 378.
Hagborg, W. A. F., 91.
Hagedorn, D. J., 131, 136, 141.
Hagemann, R. H., 364.

Hagen, B., 40.
Hagen, C. E., 370.
Haget, A., 61.
Hagin, J., 11.
Hagiya, K., 173.
Hagman, J. V., 95.
Hagsand, E., 341, 345.
Hahmann, K., 163, 165, 210, 262.
Hahn, E., 368.
Hahn, H., 151.
Hahn, W., 331.
Haine, E., 65, 72, 127.
Hainsworth, E., 289.
Hair, J. B., 142.
Haisma, J. P., 297.
Halászfy, C. E., 52.
Hale, C. W., 332.
Haley, W. E., 290.
Hall, A., 134.
Hall, B. J., 160.
Hall, C. B., 169.
Hall, D. G., 43, 350, 373.
Hall, D. W., 72.
Hall, I. M., 108, 145, 323.
Hall, S. A., 349.
Hall, W. C., 275.
Hallemans, A., 177, 184, 186, 204, 206, 271, 361.
Haller, H. L., 350.
Haller, M. H., 192.
Halma, F. F., 215.
Halpin, J. E., 27, 138.
Halse, N. J., 214.
Haltiwanger, W. L., 89.
Haltmeier, 295, 378.
Hamacher, W., 161.
Hamada, M., 8, 361.
Hambleton, E. J., 43.
Hamilton, A., 206.
Hamilton, D. G., 99.
Hamilton, D. W., 184, 357.
Hamilton, L. S., 307.
Hamilton, R. D., 33.
Hammarlund, L., 320, 350.
Hammer, O. H., 320.
Hammerle, W. C., 246.
Hammerschlag, W., 228.
Hammond, G. H., 59.
Hammond, H. E., 65.
Hamner, A. L., 278.
Hamner, L. V., 65.
Hampel, G., 300.
Handford, R. H., 47, 49, 378.
Hanf, M., 143, 342.
Hanf, W., 380.
Hanke, M. L., 295.
Hanna, A. D., 281.
Hanna, R. L., 47, 54, 106, 107, 278.
Hannemann, R., 225.
Hannigan, M. A., 198.
Hanning, F., 297.
Hanschell, D. M., 340.
Hansen, C. M., 125.
Hansen, E. B., 2.
Hansen, F., 115, 122, 297.
Hansen, H. L., 342.
Hansen, H. N., 20, 24.
Hansen, H. P., 285.
Hansen, J. K., 186.
Hansen, J. R., 34, 89, 346.
Hansen, S. E., 122.
Hansen, V., 56.
Hansing, E. D., 101.
Hanson, A. A., 137.
Hanson, C. H., 140.
Hanson, E. W., 137, 138, 141.
Hanson, H. L., 30.
Hanson, H. S., 246, 254.
Hanson, N. S., 344.
Hanson, R. G., 137.
Hanson, W. R., 16.
Hanspeter, 204.
Hansson, A., 373.
Hansson, O. V., 167.
Hantsbarger, W. M., 205.
Hantsbarger, W. H., 197.
Hara, K., 25.
Harada, S., 192.
Harada, T., 87, 89.
Harcourt, D. G., 163, 173, 374.
Harder, A., 179.
Harder, K., 369.
Harding, P. L., 303.
Hardison, J. R., 138, 142.
Hardt, H. K., 359.
Hardy, G. H., 70.
Hare, W. W., 138, 156.
Haring, R. C., 342.
Harington, J. S., 258.
Harley, C. P., 199.
Harmsen, L., 307.
Haronska, G., 369.
Harper, F. R., 126, 175.
Harper, R. W., 47.
Harries, C. S., 132, 165.
Harries, M. R., 262.
Harris, H. B., 93.
Harris, H. C., 280.
Harris, J. I., 80.
Harris, J. R., 372.
Harris, K. L., 300.
Harris, L., 112, 128.
Harris, M. R., 202, 204, 207, 211.
Harris, R. V., 84, 184, 211.
Harris, R. W., 195.
Harris, T. H., 361.
Harris, V. C., 33, 35, 143, 276.
Harris, W. V., 307.
Harrison, A. L., 84.
Harrison, D. E., 113.
Harrison, I. R., 273.
Harrison, J. H., 7.
Harrison, P. K., 284.
Harrison, R. A., 70, 159, 227.
Harrison, T. H., 373.
Harrison, T. J., 101.
Harriss, R. W., 202.
Harrow, K. M., 286, 307.
Harstad, J. B., 317.
Hart, V. L., 32.
Hartman, A. W., 236.
Hartman, E., 318.
Hartmann, F., 256.
Hartmann, H.-P., 356.
Hartmann, H. T., 155.
Hartmann, P., 369.
Hartogensis, H., 151, 342.
Hartsuijker, K., 129.
Hartweig, F., 65.
Hartzell, A., 269, 373.
Harvey, D. G., 372.
Harvey, G. M., 259.
Harvey, H. G., 267.
Harvey, H. L., 167.
Harvey, H. R., 197.
Harvey, H. T., 191.
Harvey, J. M., 273, 304.
Harvey, W. A., 16, 103, 179, 340.
Harz, K., 65, 66.
Hascoet, M., 12, 319.
Hase, A., 6, 66, 135, 221, 272, 310, 315.
Haseman, L., 322, 335.
Hasenow, W., 76, 330.
Hash, T. R., 209.
Hashioka, Y., 93, 101, 109.
Haskell, G., 89.
Haslund, O., 230.
Hassebrauk, K., 95, 161.
Hasselbach, 223.
Hassett, C. C., 350.
Hassett, Ch. C., 295.
Hastings, E., 48, 140.
Hastings, R. J., 39, 118, 264.
Hasuko, E., 284.
Hatai, N., 369.
Hatfield, R., 340.
Hathaway, C., 258, 307.
Hauck, M., 332.
Hauck, 110.
Haudiquet, R., 350.
Hauptfleisch, K., 11.
Haus, K., 122.
Hauschild, I., 111.
Hauser, E. W., 346.
Hauslip, N. C., 107.
Havelka, J., 300.
Havermann, H., 374.
Havis, J. R., 162, 282, 366.
Havis, L., 38, 193.
Hawes, I. L., 5.
Hawker, L. E., 20, 318.

Hawkins, J., 108.
Hawksworth, F. G., 244.
Hawley, I. M., 59, 324.
Hawley, W. O., 160.
Hawn, E. J., 138, 151.
Haworth, F., 161, 289.
Haws, L. D., 72.
Hawthorne, P. L., 166.
Hay, R. E., 347.
Hay, R. J., 112.
Hay, W. D., 175.
Hayashi, T., 132.
Hayashida, M., 219.
Hayes, W. J., 374.
Hayes jr., W. J., 375.
Hayhurst, H., 295.
Haynes, D. L., 307.
Hayslip, N. C., 106.
Hayward, L. A. W., 280.
Hayward, L. G., 320.
Hazeltine, W., 59.
Hazleton, L. W., 374.
Heagy, A. B., 342.
Heal, R. E., 369.
Headley, A. E., 286.
Healy, M. J. R., 43.
Heath, D. F., 358.
Heatherington, W., 281.
Heatley, N. G., 332.
Hebblethwaite, P., 372.
Hebert, L. P., 34.
Hebert, T. T., 92.
Hecht, O., 281.
Hedden, O. K., 369.
Heddergott, 249.
Heddergott, H., 186.
Heeley, W., 39.
Heerdt, W., 374.
Heggestad, H. E., 147.
Heiberg, B. C., 165.
Heidenreich, E., 127, 246.
Heidenthal, G., 327.
Heidermanns, C., 40.
Heie, O., 81.
Heiks, R. E., 258.
Heiling, A., 118, 128, 129, 130.
Heilman, A. S., 288.
Heim, R., 25.
Heimann, M., 267.
Heinen, R., 276.
Heinrichs, D. H., 137.
Heinze, G., 355.
Heinze, K., 81, 269.
Heit, C. H., 321.
Helfer, J. R., 57.
Helgeson, E. A., 127, 342, 346.
Heliqvist, H., 342.
Hellbo, E., 97.
Heller, E., 225.
Heller, G., 176.
Heller, R. C., 252.
Heller, V. G., 359.
Hellmers, E., 113, 267.
Hellström, N., 300.
Hellyer, A. G. L., 350.
Helm, C. A., 103.
Helm, R., 302.
Helson, G. A. H., 81, 86, 315.
Helton, A. W., 19, 186, 192, 208.
Helvey, T. C., 350.
Hely, F. H., 133.
Hemer, 138.
Hemerick, G. A., 138.
Heming, W. E., 361.
Hemming, H. G., 27, 332.
Hempel, G., 56.
Hemphill, D. D., 209, 210, 342, 346.
Hemstreet, C. L., 190.
Hendershot, B., 374.
Henderson, C. F., 62.
Henderson, D. M., 26.
Henderson, G. J., 126.
Henderson, J. H. M., 154.
Henderson, L. S. 295.
Henderson, W. J., 138, 201.
Hendricks, S. B., 11.
Hendrix, J. W., 287.
Henner, J., 110, 122, 224, 225.
Hennecke, 249.
Hennig, R., 241.
Hennig, W., 70.
Henning, R. G., 113.
Henning, W. L., 75.
Henrard, P., 307, 346, 361.
Henriet, J., 335.
Henry, A. W., 101, 332.
Henry, B. W., 231.
Hensill, G. S., 209, 361.
Henson, W. R., 66, 234, 252.
Henze, 252, 330.
Henze, O., 74, 75.
Hepburn, G. A., 186, 218, 361.
Hepler, P. A., 161.
Hepler, P. R., 161.
Hepting, G. H., 230, 231, 239, 241, 243.
Heptner, W. G., 76.
Heqvist, K. J., 73, 249, 252, 254.
Herford, G. V. B., 295.
Herfs, A., 47, 50.
Hering, E. M., 43, 70, 182.
Hering, M., 228.
Heringa, J. W., 366.
Hermant, E., 113.
Hernández-Medina, E., 287.
Hernandez Robredo, L., 87.
Herold, F., 173.
Herold, K., 374.
Heron, R. J., 254.
Herran, K. 13.
Herrbach, E. F., 320.
Herrbach, E. J., 43.
Herron, J. C., 140, 163.
Herrstrom, G., 62.
Hervey, A., 332.
Hervey, G. E. R., 156, 163, 164.
Heseltine, W. W., 366.
Heske, F., 10,
Heslop-Harrison, G., 43.
Hesmer, H., 245.
Hespeler, O., 307.
Hess, G. E., 80.
Hess, Q. F., 236.
Hesse, C. O., 190.
Hesse, R., 16.
Hesselbarth, G., 66.
Hesseltine, C. W., 20, 332.
Hester, D. A., 236.
Hetrick, L. A., 50.
Heuberger, J. W., 110, 156, 188, 192, 200, 239, 321.
Hewetson, F. N., 184, 198.
Hewitt, E. J., 11.
Hewitt, W. B., 223, 224, 226.
Hewlett, M. A., 273.
Hewlett, P. S., 295.
Hey, A., 117, 118, 122.
Hey, G. L., 41, 202.
Heyne, E. G., 95, 106, 107.
Heyrovsky, L., 61.
Hibbard, A. D., 177, 196.
Hibbs, E. T., 108.
Hibbs, J. W., 140.
Hickman, J. M., 328.
Hickmann, D., 267.
Hieke, E., 369.
Hield, H. Z., 37, 198, 214, 305.
Hiemeieers, J., 177.
Hienton, T. E., 367.
Hierholzer, O., 1.
Hietala, P. K., 130.
Higginbotham, A. L., 30.
Higgins, D. J., 27.
Higgins, K. B., 190.
Higgins, V., 264.
Higley, J. C., 39.
Hijner, J. A., 39, 128.
Hilbrich, P., 374.
Hilchey, J. D., 47.
Hildebrand, A. A., 126, 133.
Hildebrand, E. M., 9.
Hildebrandt, A. C., 150.
Hilkenbäumer, F., 190.
Hill, A. R., 210.
Hill, C. C., 106.
Hill, C. H., 204.
Hill, E. C., 19.
Hill, H. C., 180.
Hill, R. P., 143.
Hillebrand, K., 180.
Hillemann, H., 163.
Hille Ris Lambers, D., 53.
Hillion, P., 373.

Hills, F. J., 126.
Hills, L. D., 160.
Hills, O. A., 165.
Hilton, R. J., 178.
Hilton, R. N., 283.
Himelick, E., 174.
Hines, C., 186.
Hingorani, M. K., 19, 91, 95, 293.
Hinke, A., 176.
Hinke, F., 142.
Hinkle, D. A., 144, 342.
Hinman, F. G., 183.
Hino, I., 20.
Hinojosa, R., 296.
Hinsvark, O. N., 8.
Hinton, H. E., 66.
Hion, T., 159.
Hirai, T., 99, 109.
Hirata, K., 369.
Hirata, S., 78, 133.
Hiratsuka, N., 25, 192.
Hiroe, I., 200.
Hirose, K., 350.
Hirsch, U., 168.
Hirschfeld, 129.
Hirschhorn, E., 95.
Hirst, J. M., 318.
Hirt, R. R., 241.
Hirt, W., 110, 115.
Hisanaga, M., 374.
Hitchcock, A. E., 31, 32, 168, 348.
Hitchins, P. E. N., 170.
Hitchner, L. S., 350, 380.
Hiyner, J. A., 129.
Hjersman, H. A., 178.
Hoadley, A. D., 170, 171.
Hoare, A. H., 304.
Hoare, E. R., 320, 369.
Hobbs, G. A., 145.
Hochapfel, H., 192, 198, 200.
Hochkirch, P., 307.
Hochstein, P. E., 20.
Hockey, J. F., 208.
Hocking, B., 322.
Hodge, H. C., 374.
Hodgson, H. J., 138.
Hodgson, J. M., 30, 33, 141.
Hodgson, W. A., 115.
Hodson, A. C., 73, 108.
Höhener, H., 369, 370.
Höhnel, W., 66.
Hölldobler, K., 73, 328.
Hönl, 13.
Höpner, T., 307.
Höppner, E., 110.
Hörhammer, C., 43.
Hoerner, J. L., 194.
Hof, T., 239, 307.
Hofeneder, K., 328.
Hoff, C. C., 72.
Hoff, W. S., 342.
Hofferbert, W., 122.
Hoffman, I. C., 322.
Hoffman, J. C., 131.
Hoffman, J. R., 167.
Hoffman, M. B., 191, 198.
Hoffman, O. L., 137.
Hoffman, P., 243.
Hoffman, P. F., 234.
Hoffman, R. A., 44.
Hoffman, R. F., 266.
Hoffman, R. M., 186, 221.
Hoffmann, A., 62, 84, 86.
Hoffmann, E., 193.
Hoffmann, G., 113, 151.
Hoffmann, M., 76, 378.
Hoffmann, W., 11.
Hoffmann-Credner, D., 358.
Hoffmann-Walbeck, H. P., 125.
Hoffmeister, J., 13.
Hofmann, E., 16.
Hofmaster, R. N., 106, 131, 158.
Hofsten, C. G., v., 30, 152, 335, 342.
Hogan, C. A., 47.
Hogan, T. W., 47, 350, 369.
Hoidale, P. A., 218.
Holborn, J. M., 87, 300.
Holdaway, F. G., 108, 136, 140.
Holdeman, Q. L., 147, 278.
Holder, E., 178.
Holdworth, R. P., 140.
Hole, K. W., 364.
Holenstein, R., 374.
Holik, O., 66.
Holley, R. W., 132.
Holliday, P., 281.
Hollingsworth, R. L., 375.
Hollis, J. P., 7, 19, 21.
Holloway, J. K., 331.
Holloway, P. H., 252.
Holly, K., 143, 346.
Holm, L., 23, 366.
Holm, L. G., 167, 268, 348.
Holman, L. E., 303.
Holman, W. G., 89.
Holmberg, D. M., 222.
Holmes, F. O., 8, 150, 172.
Holmes, G. D., 245.
Holmgren, O., 93.
Holmsgaard, E., 256.
Holton, C. S., 95, 98, 101, 142.
Holtzmann, O. V., 27, 264, 265.
Holway, C. P., 236.
Holz, W., 36, 304, 315, 320, 342.
Home, J. H. M., 36.
Home, J. M., 32.
Homeyer, B., 104.
Honey, E. E., 243.
Hood, J. D., 287.
Hooker, A. L., 92, 94.
Hooker, W. J., 113, 284.
Hopf, H. S., 350, 351.
Hopf, M., 120.
Hopfengart, M., 11.
Hopkins, A. S., 236.
Hopkins, H. H., 13.
Hopkins, H. T., 16.
Hopkins, J. C. F., 147.
Hopkins, L., 140, 361, 374.
Hoppe, P. E., 89.
Horanic, G. E., 214.
Horber, E., 335.
Hord, H. H. V., 201.
Hord, L. G., 62.
Horigan, F. D., 258.
Horiguchi, H., 89.
Horn, A. v., 161.
Horn, N. L., 138, 165, 192, 208.
Horner, C. E., 174.
Horner, R. M., 239.
Hornig, 374.
Hornstein, I., 361, 362.
Horovitz, S., 106.
Horsfall jr., F., 186, 197.
Horsfall, J. G., 28, 339, 361.
Horsfall, J. L., 372.
Hosaka, Y., 243.
Hosch, 120.
Hoskins, W. M., 132, 361.
Hosogai, S., 197.
Hosokawa, S., 92.
Hosoya, S., 332.
Hotson, H. H., 25, 95.
Hottes, F. C., 53.
Hougas, R. W., 110, 114.
Hough, L. F., 201, 202, 203.
Houghland, G. V. C., 5.
Houston, B. R., 54, 109, 152.
Houter, J., 186.
Houter, P., 186.
Houter, P. J., 189.
Houtman, G., 84, 180, 181, 182, 186, 204, 207.
Hovd, A., 141.
Hovey, C. L., 342.
Hovey, Ch. L., 124.
Howard, F. L., 158.
Howard, H. W., 173.
Howard, W. E., 76, 178.
Howatt, J. L., 115.
Howe, R. W., 57, 280, 295, 296, 300, 364.
Howe, W. L., 135, 280, 321.
Howell, D. E., 295.
Howell, H. B., 38.
Howell, J. L., 50.
Howell, R. E., 276.
Howland, A. F., 172.
Howles, R., 85, 172, 266.
Howlett, F. S., 168.
Hoy, J. M., 39, 43.
Hoyman, W. G., 112, 122.

Hoyt, A. S., 278, 374.
Hrdý, I., 120.
Hruschka, H. W., 303.
Hsia, Y. J., 291.
Hsiung, G. D., 332.
Huber, A., 274.
Huber, E. H., 342.
Huber, G. A., 211.
Huber, H., 308.
Huber, J. A., 145.
Hubert, E. E., 28, 244, 307.
Hubert, F. P., 235.
Hubert, K., 103, 115, 127, 300, 321, 335, 374, 378.
Huddle, H. B., 310.
Huddleston, E. B., 258, 307.
Hudson, M. S., 307.
Hudson, N. M., 73.
Huebner, J., 304.
Huebschman, Ch., 23.
Hueck, H. J., 183.
Huelsen, W. A., 89.
Huertos, M. R., 80, 164, 266.
Hüter, F., 361.
Huffaker, C. B., 331.
Huffmann, M. D., 95.
Hufnagl, H., 307.
Huggins, H. C., 66, 315.
Hughes, A. E., 355.
Hughes, A. M., 41.
Hughes, C. E., 342.
Hughes, C. G., 262, 291.
Hughes, G. M., 43, 74.
Hughes, J. E., 332.
Hughes, K. M., 228, 323.
Hughes, M. B., 22, 284.
Hughes, S. J., 21, 23, 27.
Huglin, P., 229.
Huijsman, C. A., 119.
Hulkenberg, A. M., 263.
Hull jr., A. C., 32.
Hull, H., 16.
Hull, R., 129.
Hull, W. B., 55.
Hultsch, M., 186.
Hummel, 297.
Hummel, F., 297.
Humphrey, R. R., 36.
Humphries, E. C., 132.
Hundertmark, B. W., 290.
Hung, S. S., 290, 325.
Hungerford, C. W., 131.
Hunold, G. A., 366, 374.
Hunt, C. R., 351.
Hunt, G. M., 50, 307.
Hunt, J. L., 135, 186, 342.
Hunt, R., 146, 147, 149.
Hunt, R. A., 147.
Hunter, A. W. S., 211.
Hunter, F. A., 61.
Hunter, J. G., 16.
Hunter, R., 275.
Hunter-Jones, P., 47.
Huntley, G., 283.
Hunziker, F., 256.
Hurford, A. W., 257.
Hurtig, I., 22, 162.
Hurwitz, S., 274.
Hus, P., 176, 186, 202, 315.
Huss, E., 231.
Hussain, S. M., 25, 241.
Hussey, N. W., 58, 73, 247, 254, 328.
Hussey, R. F., 53.
Husson, J., 103.
Husson, R., 249, 328.
Hutchings, B. L., 20.
Hutchings, S. S., 312.
Hutchins, R. E., 277, 278, 325.
Hutchinson, M. T., 210.
Hutson, R., 322, 335.
Hutton, E. M., 78, 122.
Hutton, K. E., 192.
Huysmans, C. P., 289.
Huzii, S., 101.
Hvass, J., 239.
Hyams, E., 226, 356.
Hyde, E. O. C., 142.
Hyde, G. E., 43, 47, 86.
Hyre, R. A., 115, 147, 170.

Ibberson, J. È., 236.
Ibragimov, R. P., 66.
Ichinohe, M., 135, 136.
Ii, M., 221.
Iino, T., 95.
Ikata, S., 186.
Ikeda, W. S., 270.
Ildis, 304.
Iljin, W. S., 11.
Imai, M., 369.
Imayuki, T., 304.
Imazeki, R., 21, 258.
Imbert, L., 197.
Imhof, 143.
Immonen, V., 308.
Incho, E. J., 43, 295.
Incho, H. H., 364.
Ingerson, H., 369.
Ingle, L., 361.
Ingles, L. G., 76.
Ingram, J. W., 290.
Ink, D. P., 212.
Inman, W. D., 378.
Inone, Y., 364.
Inoue, C., 361.
Inoue, K., 236.
Inoue, Y., 99, 308.
Inukai, T., 256.
İren, S., 95.
Iren, Z., 66, 328.
Irons, F., 369.
İrtel, H., 39.
Isaakidès, C., 155.
Isaewa, A. J., 159.
Ishida, N., 333.
Ishida, S., 234.
Ishida, Y., 92.
Ishido, Y., 377.
Ishii, K., 200.
Ishii, M., 150.
Ishii, S., 140, 358.
Ishii, T., 354.
Ishikawa, E., 99.
Ishikura, H., 358.
Ishil, T., 363.
Ishizaki, H., 356.
Islas S., F., 53.
Isler, D. A., 321.
Isozaki, Y., 214.
Issa, E., 192, 200, 202.
Issekutz, L., 66.
Issendorff, J. V., 70.
Istřanca, R., 274, 275.
Itie, G., 165.
Ito, I., 29.
Ito, K., 25, 27, 240, 241, 243.
Ito, M., 66.
Ito, T., 241.
Ito, Y., 106.
Itoga, S., 53.
Itzerott, H., 361, 369.
Iura, M., 284.
Iuzhnyi, Z. M., 262.
Ivanoff, S. S., 99.
Ivens, G. W., 245, 342, 366.
Ives, J. V., 202.
Ivins, J. D., 37.
Ivy, E. E., 351.
Iwade, I., 258, 324.
Iwakiri, F., 338.
Iwanow, E., 278.
Iwanowskaja, T. L., 168.
Iwata, I., 98.
Iwata, J., 365.
Iwata, M., 225.
Iwin, I. A., 89.
Iyatomi, K., 106.
Iyengar, N. K., 275.
Iyer, V., 295.
Izard, C., 147.
Izrailjson, W. F., 165.
Izuka, K., 356.

Jaarsveld, A., 351.
Jack, A., 40.
Jacks, H., 110, 132, 157, 159, 167, 187, 190, 197, 201, 227, 262, 322, 335, 351, 369, 372, 374.

Jackson, A. A., 174.
Jackson, E. L., 95.
Jackson, L. W. R., 234.
Jackson, R. A., 43.
Jackson, T. L., 95.
Jackson, W. B., 76.
Jackson, W. S., 36.
Jacob, W. C., 297, 342.
Jacobs, B. R., 300.
Jacobs, W. P., 18.
Jacobsen, A. C. B., 351.
Jacobson, G., 103.
Jacobson, L., 22.
Jacobson, L. A., 66, 106.
Jacquin, P., 198.
Jacquiot, C., 244, 258, 308.
Jadhave, Y. G., 259.
Jäckh, E., 252.
Jaeger, 63.
Jaeger-Draafsel, E., 183.
Jähnl, G., 111, 124.
Jaffé, W. G., 366.
Jagendorf, A. T., 161.
Jagoe, R. B., 86.
Jahn, E., 231, 246.
Jahn, S., 103.
Jain, A. C., 28, 165, 266, 280, 287, 324.
Jain, J. C., 309, 310.
Jakimenko, T. W., 102.
Jamalainen, E. A., 159.
James, E., 30, 342.
James, M. O., 270.
James, N., 300.
James, N. D. G., 237.
Jameson, H. R., 361.
Jameson, J. D., 275.
Jamieson, C. A., 137.
Jamison, F. S., 169.
Jančařík, R. A., 158.
Jancke, O., 182, 204, 223, 228, 335, 380.
Jancke, W., 228, 355.
Janes, R. L., 156.
Janežić, F., 59, 120, 182.
Janke, A., 366.
Janmoulle, E., 66.
Jannone, G., 47, 86, 155, 315.
Janovac, Ž., 111.
Janson, B. F., 174.
Janssen, M., 203.
Jansson, A., 56, 328.
Jantzen, G., 374.
Jarvis, M. W., 364.
Jary, S. G., 1, 152.
Jasmin, J. J., 346, 359, 366.
Jaubert, P., 29, 89, 280, 281.
Jauch, C., 200, 261.
Jaunin, R., 361.
Javanić, M., 135.
Javier Gazzo, F. D., 364.
Jaworski, E. G., 132.
Jayaraman, M. V., 14.
Jaynes, H. A., 252.
Jeannel, R., 62.
Jeber, J., 120.
Jeffers, W. F., 114, 208, 244, 265, 267, 272.
Jefferson, R. N., 40, 66, 262, 266, 268.
Jeffery, M. W., 20.
Jefferys, E. G., 332.
Jehle, R. A., 133, 240.
Jelinek, A. G., 358.
Jelitto, C. R., 13.
Jelmoni, E., 108.
Jenkins, A. E., 23, 133, 240, 269, 312.
Jenkins, C. F. H., 41, 53, 130, 194, 271, 351.
Jenkins, D. W., 295, 350.
Jenkins, J. E. E., 202.
Jenkins, L., 135, 190, 198, 204, 206, 349.
Jenkins, M. T., 99, 278.
Jenkins, P. T., 7, 179, 191, 200.
Jenkins, W. A., 146, 147, 148, 150.
Jenkins, W. G., 47.
Jenny, J., 223.
Jensen, C. F., 13.
Jensen, D. D., 196, 270.
Jensen, H. J., 271.
Jensen, H. L., 19, 346.
Jensen, I. C. B., 187.
Jensen, J. A., 358, 369.
Jensen, J. H., 80, 82.
Jensen, N. F., 87, 93.
Jensen, V., 127, 128.
Jensen, W., 308.
Jeppson, L. R., 185, 218.
Jepson, W. F., 291.
Jermoljev, E., 80.
Jesse, A., 208.
Jesser, M. J., 218.
Jester, R. A., 271.
Jeter, F. H., 149.
Jetne, M., 34.
Jeuniaux, Ch., 57.
Jeurink, J., 111, 119.
Jevtić, M., 243.
Jezeski, J. J., 300.
Jha, A., 30.
Jinks, J. L., 21, 24.
Jørgensen, E., 241, 249, 318.
Jørgenson, H. A., 23.
Jørstad, I., 21, 25.
Johansen, C., 187.
Johanson, F. D., 194.
Johansson, E., 300.
Johansson, N. O., 332.
John, K. P., 283.
Johnsen, P., 374.
Johnson, A., 36.
Johnson, A. A., 93.
Johnson, A. G., 26.
Johnson, A. W., 29, 119.
Johnson, C. G., 53, 136.
Johnson, C. M., 132.
Johnson, E. M., 147.
Johnson, F., 208, 211.
Johnson, F. S., 342.
Johnson, G., 111, 113, 114.
Johnson, G. A., 358.
Johnson, H. G., 126.
Johnson, J., 148, 150.
Johnson, J. C., 136.
Johnson, J. H., 66, 210.
Johnson, J. R., 101.
Johnson, L. F., 92, 291, 332.
Johnson, L. P. V., 97.
Johnson, M. D., 19, 286.
Johnson, R. A., 308.
Johnson, R. H., 66.
Johnson, R. K., 300.
Johnson, T., 25, 95, 99.
Johnson jr., T. W., 27.
Johnson, V. A., 322.
Johnston, C. J. R., 70, 218, 369.
Johnston, C. O., 95.
Johnston, H. G., 278, 300.
Johnston, H. R., 259.
Johnston, H. W., 321, 346.
Johnston, J. M., 374.
Johnston, T., 277.
Johnstone, G. R., 241.
Joiner, J., 213.
Jolain, R., 237.
Jolivet, P., 61, 328.
Jolly, D. W., 374.
Joly, E., 193.
Joly, M., 80.
Joly, P., 47.
Joly, R., 231, 252.
Jonas, G. Z., 309.
Jonas, H., 16.
Jones, C. K., 374.
Jones, E. T., 93, 106, 107.
Jones, E. W., 127, 128, 312.
Jones, F. R., 138, 314.
Jones, G. D., 278.
Jones, G. D. G., 351.
Jones, H. A., 43, 364.
Jones, J. C., 300.
Jones, J. O., 198.
Jones, J. P., 342.
Jones, K. W., 342.
Jones, L. E., 196.
Jones, L. G., 137.
Jones, L. H., 146.
Jones, L. R., 351.
Jones, L. W., 10, 361.
Jones, M. P., 43, 278, 351.
Jones, P. C. T., 319.

Jones, S. C., 194.
Jones, T. H., 343.
Jones, W., 152, 162, 262.
Jones, W. L., 300.
Jones, W. N., 231.
Jordan, R., 374.
Jorgensen, H., 134.
Jorgenson, G. E., 271.
Joshi, C. G., 332.
Joshi, K. C., 339.
Joshi, L. M., 97.
Joshi, N. V., 89.
Joshi, S. G., 89.
Joslyn, M. A., 295.
Josifović, M., 115, 244.
Joubert, C. J., 159.
Joubert, G. F., 213.
Jougan, E., 191.
Jourdeuil, P., 153.
Journet, P., 210.
Jovanić, M., 68.
Jover, H., 62.
Jovine, L., 362.
Joyce, R. J. V., 47.
Ju, L. S., 291.
Juarez Montegrifo, F., 218.
Jucci, C., 50.
Judd, W. W., 66, 328.
Judenko, E., 136, 281.
Jugenheimer, R. W., 84.
Julien, J.-B., 207.
Juillet, A., 168, 207.
Julliard, Ch., 66, 328.
Jump, J. A., 170.
Junatow, A. A., 145.
Jungfer, W., 76.
Junqueira, G. M., 282, 291, 328.
Jurkowska, H., 23.
Juscafresa, B., 102, 130, 197, 300, 303.
Justham, M. C. D., 172.
Juutinen, P., 249, 256.

Kaars Sijpesteijn, A., 356.
Kabiersch, W., 112, 118.
Kämpf, R., 10.
Kaempfert, W., 13.
Kästner, W., 300.
Kahl, E., 369.
Kahn, R. P., 161.
Kaimal, K. N., 283.
Kaiser, W., 159, 335.
Kaiwar, S. R., 275.
Kaji, J., 28.
Kalabutschow, N. I., 76.
Kalandra, A., 254, 255.
Kaljbergenow, G. K., 295.
Kalchschmid, W., 187.
Kale, L., 334.
Kalik, V., 57.
Kallauch, W., 271.
Kalmbach, E. R., 330.
Kaloostian, G. H., 81.
Kalshoven, L. G. E., 50, 286.
Kalyanasundaram, R., 27, 276.
Kamal, M., 279.
Kamat, M. N., 53, 273, 288, 324.
Kammerer, E. L., 234.
Kamp, H. J., 249.
Kanapaux, M. S., 131.
Kandiah, S., 89.
Kane, N. F., 348.
Kaneko, T., 106.
Kanervo, V., 301.
Kangas, E., 61.
Kanngießer, W., 122, 150.
Kansu, A., 359.
Kaplan, R. M., 187, 367.
Kappler, E., 297.
Kapur, N. S., 305.
Kapuściński, St., 231.
Karaerow, P. G., 95.
Karel, G., 20, 25, 27, 138.
Kariya, K., 99.
Kārklinš, L., 178.
Karman, M., 51, 149.
Karnatz, H., 178.
Karpiński, J. J., 252.
Karslioğlu, S., 59.
Karwezkij, W. W., 231.
Kás, V., 369.
Kasahara, Y., 103.
Kaspirow, A. I., 10.
Kassanis, B., 78, 82, 122.
Kasting, R., 374.
Kasy, F., 66.
Kataoka, K., 356.
Kato, H., 99.
Kato, M., 106, 108.
Katschanowa, E. R., 141.
Katsuki, F., 100.
Katsuki, H., 100.
Katsuki, S., 21, 27, 28, 159.
Katsura, K., 164, 165.
Katsura, S., 246, 331.
Katz, R., 90.
Kaudy, J. C., 127, 366.
Kaufhold, 228.
Kaufhold, W., 224.
Kaufman, J., 297, 303.
Kaufmann, O., 15.
Kaul, R. N., 30.
Kaussari, M., 54.
Kautz, H., 153.
Kavanagh, F., 332.
Kawai, I., 87.
Kawai, S., 379.
Kawamura, E., 194.
Kawamura, T., 200.
Kawasima, R., 102.
Kawatani, T., 24.
Kay, K., 199, 204, 335.
Kayser, 369.
Kazanskij, A. N., 141.
Kazmaier, H. E., 124.
Keane, F. W. L., 178.
Kearns, C. W., 46, 49, 50, 362.
Kearns, H. G. H., 202.
Keasling, H. H., 360.
Keding, F., 95.
Keegel, E. L., 289.
Keen, F. P., 246, 249.
Keenan, W. C., 342.
Keener, P. D., 165.
Keetch, J. J., 237.
Keh, B., 41.
Keifer, H. H., 41.
Keil, H. L., 339, 361.
Keilbach, R., 1, 120, 328, 378.
Keilholz, 111.
Keilholz, F. J., 276.
Keilholz, G., 102.
Keino, K., 259.
Keister, M. L., 70.
Keitt, G. W., 201, 202, 203, 333, 334.
Kekukh, A. M., 117.
Keleny, G. P., 122.
Keller, C., 226.
Keller, Ch., 58, 60.
Keller, E., 59.
Keller, H., 361.
Keller, J. B., 266.
Keller, J. R., 271.
Kelly, B. K., 332.
Kelman, A., 19, 92, 148.
Kelsey, D., 364.
Kelsey, J. M., 246.
Kelsheimer, E. G., 106, 145, 156, 169, 171.
Kelton, E., 314.
Kemmer, E., 178.
Kemp, P. J., 265.
Kemper, H., 6, 264.
Kenda, G., 80, 264.
Kendrick, J. B., 122, 167.
Kendrick jr., J. B., 133, 160, 164.
KenKnight, G., 190, 196.
Kennedy, J. S., 47.
Kennett, C. E., 331.
Kenney, R., 34.
Kent, G. C., 87.
Kerbey, G. F., 43.
Kerle, W. D., 87.
Kerling, L. C. P., 132, 133, 378.
Kern, H., 8, 14, 170, 297.
Kern, W., 59, 328.
Kernbach, K., 66.

Kernchen, S., 66.
Kernkamp, M. F., 113, 137, 138.
Kerns, C. M., 351.
Kerr, H. B., 152.
Kerr, T. W., 158.
Kerr jr., T. W., 194, 262.
Kershaw, S. H., 66.
Kerssen, M. C., 115.
Kerstens, J. R., 187.
Kersteter, A., 259.
Kersting, F., 32, 36.
Kessler, B., 316.
Ketelaar, J. A. A., 346, 358.
Kettlewell, H. B. D., 66.
Keyder, S., 54, 131, 159, 167, 269, 279, 328.
Keyer, E. J., 202.
Keys, G. B., 47.
Keyworth, W. G., 113, 170, 207.
Khan, A. M., 113.
Kharin, S. A., 187.
Khlopin, N. Y., = Chlopin N. Y.
Khokhlov, D. N., = Chochlow D. N.
Khorana, M. L., 365.
Khrobrykh, N. D., 113.
Kido, Y., 106.
Kiefer, M., 225.
Kienholz, J. R., 200.
Kienzle, R. A., 162.
Kietreiber, M., 95.
Kiffmann, R., 30.
Kihss, P., 47.
Kikutani, M., 364.
Kilby, B. A., 357.
Kilgus jr., J. F., 31.
Kilpatrick, D. T., 122.
Kilpatrick, R. A., 133.
Kilroe-Smith, T. A., 308.
Kimura, K., 259.
Kincaid, R. R., 146, 147.
Kind, 14, 350.
Kindler, D., 342.
Kindler, R., 342.
King, C. E., 278.
King, C. L., 350.
King, H., 187.
King, H. W., 214.
King, J. E., 296.
King, L. J., 34, 342.
King, L. W., 111.
King, N. C., 291, 346.
King, N. J., 291.
King, T. H., 27, 165, 212.
Kinghorn, J. M., 249.
Kingsolver, C. H., 93.
Kinoshita, S., 91.
Kiplinger, D. C., 266, 269.
Kips, R. H., 119.
Kirby, A. H. M., 187, 199, 335, 374.
Kirby, R. S., 192.
Kirchberg, E., 351, 378.
Kirchner, 73, 75, 120, 187.
Kirchner-Kühn, I., 40.
Kirjanowa, E. S., 145.
Kirk, V. M., 118.
Kirkpatrick jr., H., 348.
Kirkpatrick, H. C., 81.
Kirkpatrick, J. D., 177, 213.
Kirste, 30.
Kirwald, E., 234.
Kiryu, T., 91, 104, 140.
Kišpatić, J., 95, 192, 274, 275.
Kisser, J., 10.
Kissinger jr., N. A., 32.
Kitajima, H., 192.
Kittleson, A. R., 338.
Kittredge, J., 10.
Kitzler, K., 57, 59.
Kivi, E. I., 96.
Kivimäe, A., 298.
Kiyoku, M., 62.
Kjellander, E., 335.
Klakely, R. M., 372.
Klatt, W. L., 322.
Klauß, 187, 249, 300, 316, 318.
Klauß, D., 10, 122, 335.
Kleczkowski, A., 19, 323.
Kleczkowski, J., 19, 323.
Kleemann, H. A., 335.
Klein, D. T., 170.
Klein, R. M., 7, 170.
Klemm, M., 76, 77, 84.
Klendshoj, N. C., 374.
Klett, 59, 76, 78, 194, 202, 205, 206, 318, 322, 335, 374.
Klett, W., 176, 187.
Klimenko, M. A., 361.
Klimesch, J., 66, 175.
Klindić, O., 274.
Klingman, D. L., 143.
Klingman, G. C., 148, 209, 342.
Klinkenberg, C. H., 207.
Klinkowski, M., 78, 113, 133, 163, 172, 270, 305.
Klinteberg, H. B., 125.
Kliuschkin, P. A., 61.
Kloeppel, R., 297.
Kloft, W., 218.
Kloke, A., 16, 17.
Klomparens, W., 98, 142, 143, 312.
Kloor, L. A., 127.
Klopping, H. L., 339.
Klose, F., 374.
Klostermeyer, E. C., 66, 174.
Klostermeyer jr., E. C., 140.
Klotz, L. J., 215, 304.
Klougart, A., 262.
Kluczycki, K., 259, 338.
Kluyver, A. J., 6.
Knapek, O., 297.
Kneifert, 75.
Knight, C. A., 80, 150.
Knight, F. B., 252.
Knight, G. F., 374.
Knight, R. L., 279.
Knight, S. G., 23.
Knipling, E. F., 351.
Knoop, F., 11.
Knorr, L. C., 220.
Knoth, K. E., 14.
Knott, J. E., 160.
Knowles, G., 144, 346.
Knowles, P. F., 152.
Knowlton, G. F., 43, 47, 50, 56, 69, 72, 106, 127, 136, 140, 160, 165, 171, 187, 247, 249, 355.
Knull, J. N., 57.
Knust, H. G., 320, 342.
Knutsson, G., 34, 345.
Knutson, H., 76.
Kobayashi, S., 308, 333.
Kobayashi, T., 240.
Kobayasi, Y., 293.
Kobel, F., 2, 80, 178, 199.
Kobel jr., F., 196.
Kobel, H., 8, 27, 170.
Kobernuß, E.-Ch., 178.
Koblet, R., 30.
Koblitsky, L., 193, 372.
Koch, C., 58.
Koch, E. G., 122.
Koch, F. W., 167.
Koch, H., 369.
Koch, L. W., 126, 133, 146.
Koch, M., 231, 246.
Koch, W., 231.
Kocher, L., 62.
Kochi, M., 333.
Koegel, L., 231.
Koehler, B., 109.
Köhler, E., 79, 80, 122.
Köhler, H., 39, 133, 208, 209.
Koehler, W., 231, 255.
Könemann, E., 322, 364.
König, A., 187.
König, E., 29, 241, 244, 249, 259, 308.
König, F., 35.
Könnecke, G., 342.
Köppel, K., 176.
Koeppner, R., 14.
Koepsell, H. J., 23.
Koerner, H., 259, 325.
Koga, K., 149.
Kohl, P. A., 32.
Kohls, G. M., 41.
Koike, H., 16.
Koike, M., 153.

Koiwa, T., 109.
Kojic, M. V., 30.
Kolbezen, M. J., 357.
Koller, J., 100.
Kolomiez, N. G., 70.
Koltermann, 93, 106.
Koltermann, E., 318.
Kolubajiv, S., 255.
Komai, Y., 192, 201, 314.
Komárek, J., 247.
Komatsu, N., 332.
Kominami, K., 21.
Kommedahl, T., 99.
Konba, T. F., 241.
Kondo, I. N., 223.
Kondo, T., 39.
Konikow, A. S., 252.
Kono, T., 295.
Konst, H., 359.
Konstantinow, A. S., 70.
Kontani, S., 27, 241.
Kontkanen, P., 54.
Koonce, B., 351.
Koone, H. D., 41, 106.
Koopman, M. J. F., 152.
Kopitke, J. C., 245, 361.
Koppe, R. W., 240.
Koppes, S., 263.
Kordes, W., 271.
Koreishi, K., 54, 106.
Korf, R. P., 24.
Korjakin, D. A., 231.
Kornew, W. P., 234.
Korolewa, N. I., 187.
Korotkich, G. I., 369.
Korowin, B. A., 150.
Korowina, N. L., 252.
Kortzas, C. B., 83.
Koshimizu, Y., 109.
Koster, G., 5.
Kotscherga, F. K., 14.
Kott, S. A., 32, 342.
Kotte, W., 156, 176, 187, 210, 322, 351.
Kotthoff, 308.
Kotthoff, P., 93, 128, 153.
Kourmoussis, A. G., 136.
Kouyeas, V., 175.
Kovačević, Ž., 43, 59, 247, 249.
Kovachevsky, I. Ch., 164.
Kovachich, V. G., 285.
Kowal, R. J., 246.
Kowalik, R., 308.
Kowatschewski, J., 156.
Koyama, S., 100.
Koyama, T., 87, 106.
Koyama, Y., 66.
Kozel, H., 237.
Kozhewnikowa, G. W., 108.
Kozloff, L. M., 80.
Kozlowa, E. N., 16.
Kozlowski, T. T., 6.
Kragh, G., 14.
Kraght, A. J., 19.
Kramer, C., 98.
Kramer, H., 234.
Kramp, M., 18.
Krampe, O., 240.
Krantz, F. A., 115.
Krasiljnikow, N. A., 333.
Kraska, E. J., 296, 304.
Krastina, E. E., 154.
Kratochvil, D. E., 89, 346.
Kraus, 126.
Kraus, H., 17.
Krause, G., 194.
Krause, W. G. C., 167.
Krauss, J., 374.
Krautzer, H., 37.
Krečmer, V., 234.
Kreitlow, K. W., 21, 133, 134, 137, 141.
Kremer, R. W., 252.
Kretić, M., 128.
Kretschmer, G., 187.
Kreutz, W., 14, 234.
Kreysa, J., 274.
Krick, I. P., 178.
Krieg, H., 351.
Kriner, E. R., 187.
Krishnaswami, C. S., 99.
Krishnaswami, S., 269, 352.
Kristensen, H. R., 78, 84, 122, 172, 196, 207, 296.
Krister, C. J., 356, 374.
Krochmal, A., 34.
Kröber, H., 179.
Krog, N., 347.
Krog, N. E., 27.
Krogerus, H., 66.
Krogh, A., 47.
Krombein, K. V., 73.
Kromdijk, G., 272.
Kronebach jr., A., 224.
Krstić, M., 221, 231, 240.
Krüger, 144.
Krüger, W., 314, 318.
Krüssmann, 197.
Krug, H. P., 33, 144.
Kruijk, P. A., 168.
Krull, 297.
Kruminš, R., 66.
Krumschmidt-Weka, W., 231, 328.
Krusen, F., 12.
Kruyt, W., 17.
Kryger, J. P., 56.
Kryshanowskij, O. L., 43.
Krzyzewski, J., 259.
Kubiczek, H., 73.
Kublan, A., 95.
Kublitzkaja, M. A., 226.
Kucheruk, V. V., = Kutscheruk, W. W.
Kudler, J., 249.
Kudrjaschowa, L. S., 216.
Kühl, 37.
Kühlhorn, F., 50, 323.
Kuenen, D. J., 183, 205, 210, 211.
Künnemann, 346.
Kürten, P., 153.
Küster, E., 8.
Küthe, K., 120.
Kugelmann, E., 157, 176.
Kuhara, S., 91.
Kuhn, L., 369.
Kuhnholtz-Lordat, G., 312.
Kuitert, L. C., 47, 145, 296.
Kuizenga, P., 152.
Kujala, V., 231.
Kukii, M., 132, 135.
Kulash, W. M., 106, 281.
Kulescha, Z., 174.
Kulicke, H., 256.
Kulig, L., 241.
Kulkarni, H. L., 288, 351.
Kulkarni, N. B., 114, 318.
Kulkarni, Y. S., 19, 31, 114, 272, 293, 312.
Kumar, S. S., 346.
Kumer, 202.
Kumer, R., 335.
Kumerloeve, H., 330.
Kundak, S., 205.
Kundert, J., 189, 225, 369.
Kunitake, M., 30, 34, 102.
Kunkel, L. O., 6, 81.
Kunkel, R., 111.
Kuntz, J. E., 231, 242, 243.
Kunz, R., 170.
Kurentsow, A. I., 63.
Kurir, A., 43, 67, 308.
Kurokawa, S., 29.
Kuroki, Y., 308.
Kurtz, J., 10.
Kurtz, O. L., 300.
Kurup, P. A., 333.
Kuščak, L. I., 226.
Kushman, L. J., 284.
Kushnir, T., 47.
Kusnezow, N., 73.
Kusnezow, W. I., 67, 249.
Kuss, 77.
Kusumoto, T., 170.
Kutscheruk, W. W., 256.
Kutschinskij, A. F., 249.
Kutsky, R., 78.
Kutter, H., 73.
Kuwayama, S., 106.
Kvello, B., 342.
Kyd, S., 364.

Laberge, W. E., 73.
Labruyere, R. E., 134.
Lachover, D., 274.
Lack, C. H., 318.
Lackey, C. F., 129.
Lacombe, R., 223.
LaDue, J. P., 218.
Lafkin, W. E., 35.
La Follette, J. R., 218.
Lafon, J., 226.
Lafon, M., 226.
Lafon, R., 225.
Lafontaine, A., 76.
Laforge, F. B., 364.
Lafrance, J., 159, 328.
Lagaude, V., 194.
Lagière, R., 275.
Lagneau, C., 373.
Lagoda, A. A., 23.
Lagos, M. B., 88, 95, 96.
Laibach, E., 310.
Laibach, F., 111.
Laidlaw, W. B. R., 246.
Laitakari, E., 234.
Lakon, G., 87.
Lal, K. B., 355.
Lal, M. B., 40.
Lalatta, F., 204.
Lamb, A. F. A., 286.
Lamb, J., 289.
Lamb, K. P., 7, 41, 57, 262, 310, 314, 328.
Lambers, D. H. R., 54.
Lambert, E. B., 312.
Lamberts, H., 138.
Lambou, M. G., 275.
Lamdan, S., 360.
Lamo de Espinosa, J., 228.
Lampe, C. H., 12.
Lampkin, G. F., 271.
Lancaster jr., J. L., 41.
Lance, C., 7, 19.
Landa, V., 59.
Landbeck, F., 374,
Landin, B. O., 56.
Landis, B. J., 117, 118, 124, 352.
Landolt, E., 99.
Landon, R. H., 208.
Landreth, J., 289.
Landwehr, 228.
Lane, D. W. J., 358.
Lane, F. W. J., 369.
Lane, G. H., 113.
Lane, H. C., 275.
Lane, M. C., 320, 322.
Lang, F. H., 237.
Langdon, R. F. N., 24.
Lange, 300, 361.
Lange, B., 355.
Lange jr., W. H., 40.
Langenbeck, W., 361.
Langenbuch, R., 120.
Langer, R., 107.
Langeron, M., 21.
Langeveld, D. W., 187.
Langford, J. K. R., 245, 361.
Langner, W., 231, 240.
Lanham, U. N., 54.
Lanktree, D., 67.
Lansdown, A. R., 29.
Laoh, J. P., 289.
Lapinš, K., 178.
LaPlante, A. A., 180, 187, 204, 207.
Large, E. C., 22, 90, 112, 120, 142.
Large, J. R., 221, 222.
Larios, C., 332.
Larrick, G. P., 300.
L'Arrivée, J. C. M., 135.
Larsen, C. S., 231.
Larsen, E., 304.
Larson, A. H., 342.
Larson, R. H., 124.
Larson, J. E., 158.
Larson, R. E., 369.
Larson, R. H., 27, 80, 124, 159, 162.
Larter, E. N., 91.
Larue, P., 252, 351.
Lasarow, A., 156.
Lasnier, G. G., 347.
Lasschuit, J. A., 283, 369.
Last, F. T., 167.
Lastinger, B. B., 237.
Latard, P., 206.
Latham, B., 237.
Lathrop, F. H., 210.
Latta, R., 296, 320, 322.
Lattner, E. J., 369.
Latypow, A. Š., 315.
Lauber, H. J., 178.
Laudani, H., 73.
Laude, H. H., 87.
Lauenstein, A., 14.
Laue, G., 358, 364.
Lauffer, M. A., 79, 80, 123.
Laug, E. T., 357.
Laurence, B. R., 63.
Laurent, J., 228.
Lauriol, F., 215.
Lavabre, 282.
Lavallard, M. L., 275.
Laverty, C. O., 378.
Lawrenko, E. M., 145.
Law, A. G., 137.
Lawlor jr., N., 128.
Lawrence, J. E., 184.
Lawrence, R. L., 145.
Lawson, F. A., 47.
Lazaruk, W., 207.
Leach, E. W., 3.
Leach, J. G., 86, 138, 243, 244.
Leach, L. D., 126.
Lean, O. B., 47, 378.
Lear, B., 119.
Leasure, J. K., 276, 342, 343.
Leatherdale, D., 7.
Leaubie, M., 258.
Leavitt, F. H., 128.
Lebarron, R. K., 231.
Lebedew, D. W., 5.
Lebedewa, L. I., 249.
Leben, C., 102, 170, 333, 334.
Lebendig, K., 245.
Le Berre, 120.
Le Berre, J. R., 47, 120.
Le Bigot, L. P., 46.
Lechevallier, H., 334.
Lechevalier, H. A., 333.
Lederer, G., 67, 296.
Lee, A. E., 226.
Lee, F. P., 267.
Lee, M. R., 90.
Lee, O. C., 30, 33, 35, 36, 144.
Lee, R. E., 231.
Leefe, J. S., 135, 144.
Lees, F. H., 67.
Le Fave, G. M., 366.
Lefèvre, P. C., 282.
Legde, G., 120.
Leggett, H. W., 35.
Leggieri, G., 282.
Le Goupils, P., 296.
Lehman, A. J., 351.
Lehman, S. G., 134, 275.
Lehmann, E., 120.
Lehoczky, J. 24.
Leib, 178, 180, 297.
Leib, E., 102, 129, 176, 318, 378.
Leibner, H., 297.
Leibovici, Ch., 358, 364.
Leiby, R. W., 86, 145, 262, 274, 351, 361.
Leiderman, L., 279.
Leipold, F., 304.
Leitenberger, L., 235.
Leitte, E. H., 300.
Lejeune, A. R., 300.
Lekander, B., 249, 257.
Leland, S. J., 374.
Lele, V. C., 96, 97, 152.
Lelievre, D., 113.
Lelliott, R. A., 159.
Lemaistre, J., 220.
Le Masne, G., 73.
Lemke, H., 111.
Lemke, W., 266.
Lemmon, A. B., 379.
Lems, H. G., 205.
Lenander, S. E., 178.
Lenger, H., 320.
Lengerer, E., 300.
Lensky, P., 375.

Lent, J. M., 132.
Leonard, C. D., 12, 214.
Leonard, O. A., 35, 342.
Leonard, R. B., 310.
Leone, I., 360.
León Ortega, M., 351.
Leontjewa, I. A., 224, 231.
Leopold, O., 375.
Lepage, H. S., 278, 351.
Le Pelley, R., 47.
Le Pelley, R. H., 107.
Lepeschkin, W. W., 16.
Lepesme, P., 61.
Lepigre, A. L., 296.
Lepore, A., 342.
Lepori, L., 172, 203, 252, 304, 324.
Le Quesne, W. J., 54.
Lespes, L., 218.
Lesser, M. A., 32, 43.
Lessmann, H., 14.
Leston, D., 52.
L'Estrange, J. A., 380.
Letnes, A., 113.
Le Tourneau, D., 347.
Lettieri, N., 351, 369.
Letz, 120.
Leukel, R. W., 96, 102.
Levadoux, L., 224.
Levin, J. H., 304.
Levina, R. E., 30.
Levine, M. N., 94, 95.
Levitan, M., 46.
Levitt, Ph. D., 14.
Levtsova, O. P.,=Lewtsowa, O. P.
Levy, M., 243.
Lewis, C. E., 265.
Lewis, C. H., 369.
Lewis, F. H., 184.
Lewis, F. O., 178.
Lewis, G. T., 246.
Lewis, H. C., 218.
Lewis, R. W., 27.
Lewis, W. D., 133.
Lewizkij, W. N., 249.
Lewtsowa, O. P., 90.
Leye, H., 92.
Leyendecker jr., Ph. J., 200, 276.
Lhéritier, G., 351.
Lhoste, J., 96, 358, 364.
Lhota, O., 245.
Li, Ch. S., 131.
Lickerish, L. A., 351.
Lidstone, J. D., 342.
Lieberman, F. V., 136, 140, 372.
Liebermann, J., 48, 107.
Liebig, A. W., 311.
Liebster, 207.
Lienig, H., 2.
Lienk, S. E., 41, 187, 204.
Liese, J., 257.
Lietz, G., 361.
Ligett, W. B., 347.
Light, W. I. St. G., 163.
Liguori, A., 226.
Lihnell, D., 81, 115, 266.
Likais, R., 22.
Lilly, J. H., 15, 51, 105, 106, 107, 137, 335.
Lilly, V. G., 242, 285.
Lima-de-Faria, A., 90.
Limasset, P., 78, 80, 81, 123, 266, 318.
Limber, D. P., 23, 152, 268.
Lin, Jen-Tu, 291.
Lin, S., 303.
Lincoln, C., 277, 279.
Lind, S. L., 50.
Lindemann, F., 322.
Lindemann, W., 256.
Linden, G., 17.
Lindenmuth, A. W., 237.
Linder, P. J., 345.
Lindfors, T., 84, 96.
Lindfors, Th., 117.
Lindgren, D. L., 217, 218, 221, 320.
Lindgren, H., 73.
Lindgren, R. M., 243, 259.
Lindhardt, K., 160, 210.
Lindquist, A. W., 43.
Lindquist, B., 96.
Lindsay, D. R., 33.
Lindsay, I. S., 66.
Linford, M. B., 287.
Ling, K. C., 291.
Ling, L., 316, 347,
Link, G. K. K., 7.
Linke, L., 41.
Linn, M. B., 168, 174.
Linnard, C., 46.
Linnasalmi, A., 157, 262.
Linnavuori, R., 54, 86.
Linsenmaier, 223.
Linser, H., 17.
Linskens, H. F., 320, 358.
Linsley, E. G., 58.
Lioret, C., 7.
List, G. M., 194, 205, 206.
Littau, V. C., 78, 80, 137, 141.
Littauer, F., 215.
Little, D. H., 351.
Littlefield, J., 272.
Litwinowa, N. S., 372.
Liubarskij, L. W., 241.
Livingston, J. E., 87.
Livingston, K. W., 308.
Ljudkin, F. M., 304.
Llewelyn, F. W. M., 208.
Llewellyn, M., 358.
Llobregat, E., 226.
Lloyd, D. C., 54, 59, 328.
Lloyd, N. C., 181.
Lo, T. T., 291.
Lobo, M. R. C., 78, 150.
Lochhead, A. G., 10.
Lochow, J. v., 90.
Locke, S. B., 7, 123.
Locker, A., 375.
Lockhart, J. A., 132.
Lockhead, A. G., 18.
Lockwood, S., 187.
Lodos, N., 107, 328.
Loeb, J. R., 300.
Loefer, J. B., 333.
Löhnis, M. P., 112.
Löhr, E., 129.
Löhrl, H., 76, 184, 330, 331.
Loemker, K., 46.
Loeters, J. W., 146.
Loewel, E. L., 14, 176, 178, 184, 187, 197, 202, 369.
Löwenberg, P., 335.
Lofgren, J. A., 351.
Logginow, B. I., 231.
Logothetis. C., 48.
Logsdon, C. E., 113.
Lohwag, K., 308.
Lomakina, M. I., 67.
Lombard, P. M., 114.
London, A., 241.
Long, A. G., 29.
Long, B. E., 291.
Long, J., 351.
Longchamp, R., 33, 90.
Longwood, F. R., 231.
Loomis, W. E., 343, 345.
Loos, C. A., 289.
Loosjes, F. E., 351.
Lopatecki, L. E., 22, 356.
López Navas, J. T., 269.
Lorch, Y., 316.
Lord, K. A., 364, 365.
Lordello, L. G. E., 117, 287.
Lorenzini, G., 117.
Loritz, J., 67.
Losa, M., 21, 25.
Loschiavo, S. R., 300, 302.
Losse, G., 361.
Lott, T. B., 177.
Lott, W. L., 224.
Loughnane, J. B., 84.
Louis, R., 358.
Lounsky, J., 316.
Loustalot, A. J., 33, 347, 364.
Louw, A. J., 202.
Lovely, W. G., 103.
Low, F. R., 125.
Lowdermilk, W. C., 48.
Lowe, A. D., 172.
Lowe, A. E., 54.

Lowe, H. J., 35.
Lowe, J. L., 25.
Lownsbery, B. F., 39, 149, 160.
Lownsbery jr., B. F., 160.
Lownsbery, J. W., 160.
Lowry, W. L., 274, 279.
Lowy, B., 25.
Loycke, H. J., 256.
Lozowoj, D. I., 174.
Lu, K. H., 45.
Lu, Sh. I., 96.
Luc, M., 24, 96.
Lucas, E. H., 332.
Lucas, G. B., 148.
Luchetti, G., 84, 202.
Luchnik, Z. I., 234.
Lučić, S., 96.
Luckan, J., 207.
Lucker, J. T., 40, 44.
Luckmann, W. H., 108.
Luckwill, L. C., 199.
Ludbrook, W. V., 142.
Ludwig, D., 59.
Ludwig, R. A., 170.
Lübke, A., 312.
Lüdecke, H., 124, 129.
Lüders, W., 128.
Lüdicke, M., 358.
Lühmann, M., 313.
Luers, H., 351.
Lüscher, M., 50, 51.
Luethy, D. R., 36.
Lugo-López, M. A., 291.
Luis, E., 194.
Luiten, I. H., 237.
Luke, H. H., 291.
Lumsden, D. V., 258, 307.
Lundberg, H., 369.
Lundberg, J., 240.
Lundblad, K., 12.
Lundquist, A., 70.
Lundsten, T., 178.
Lupton, F. G. H., 93.
Luque, J. A., 224.
Lušin, V., 22, 95, 226, 274.
Lusis, E., 224.
Lusius, E., 17.
Lustig, E., 187.
Luteršek, D., 328.
Luthardt, W., 231.
Lutri, I., 155.
Luttrell, E. S., 93, 99, 134, 138, 142.
Lutz, H. J., 231, 234.
Lutz, J. M., 284.
Luvisi, G. W., 343.
Luxford, R. F., 239.
Luz, N. K., 114.
Lyall, L. H., 170.
Lychnos, D., 155.
Lyle, C., 43.
Lyle, E. W., 271.
Lyle, J. A., 3, 142.
Lyon, A. G., 173.
Lyons, C., 50.
Lysebråte, K., 37.
Lyssenko, T. D., 231.

Maag, R., 336.
Maan, W. J., 255, 320, 369.
Ma, P. T., 291.
McAlpin, D. M., 167.
McAnelly, C. W., 27. 159.
McAuley Gracie, W., 76.
McBeth, C. W., 39.
McCall, G. L., 347.
McCallan, S. E. A., 21, 338, 356, 357, 366.
Maccanti, M., 184, 202.
McCauley, W. E., 296, 359.
McClain, R. L., 220.
McClean, A. P. D., 164.
McClellan, W. D., 262, 264.
McClure, T. T., 192.
McCollister, D. D., 375.
McColloch, L. P., 157, 170.
McCornack, A. A., 190.
McCoward, D. J., 316.
McCoy, C. E., 86.
MacCreary, D., 156, 204.
McCrory, S. A., 207.
McCubbin, W. A., 235.
McCullough, J. M., 256.
McCully, W. G., 34, 36, 37, 347, 369.
McDonald, H., 66.
Macdonald, J. M., 234.
MacDonald, W. P., 152, 343.
McDougall, W. A., 291.
McDuff, I. H., 276.
McE. Kevan, D. K., 48.
Macer-Wright, D., 187.
McEwen, F. L., 163.
Macfarlane, I., 162.
McFarlane, J. S., 126, 129.
McGahen, J. W., 24.
McGee, L. C., 375.
McGehee, H. T., 259.
MacGillivray, J. H., 132.
MacGillivray, M. E., 54.
McGowin, E. M., 237.
McGregor, E. A., 42.
MacGregor, H. I., 372.
McGregor, S. E., 376.
McGregor, W. G., 175.
McGrew, J. R., 148.
McGuire, D. C., 171.
Machacek, J. E., 90, 99, 102, 301.
Machnowskij, I. K., 231.
McIlrath, W. J., 275.
M'Intosh, T. P., 123.
McIntyre, C. B., 186, 194.
Mack, G. W., 308.
Mack, W., 67.
Mackay, I. A., 351.
Mackay, J. H. E., 170, 190.
McKay, R., 84, 93, 124.
McKee, R. G., 231.
McKee, R. K., 114.
McKeen, C. D., 157, 164, 165, 166.
McKeen, C. G., 25.
McKeen, W. E., 87, 92, 99.
McKenzie, H. L., 54, 155.
Mackenzie, J. M. D., 331.
McKenzie, R. E., 137.
McKeown, K. C., 56.
MacKey, J., 93.
Mackie, R. W., 370.
McKinlay, K. S., 275.
McKinney, H. H., 78, 90, 109, 142.
McLachlan, K. D., 12.
McLarty, H. R., 179, 199.
McLaughlin, J. H., 156, 281.
McLaughlin, W. D., 243.
McLean, D. M., 164, 268, 269.
MacLean, J. D., 308.
McLees, J. R., 237.
McLennan, E. I., 333.
McLennan, H. A., 137.
MacLeod, D. J., 123.
McLeod, J. H., 50, 255.
McLeod, W. S., 351.
McManus, P. J., 336.
McM[artin], A., 291.
McMaster, P. G., 282.
MacMillan, W. G., 17, 24.
McMullen, M. J., 255, 259.
McMurray, S. F., 343.
McMurtrey jr., J. E., 12.
McNaught, K. J., 169.
McNay, C. G., 86.
McNeal, X., 308.
McNeil, D., 308.
McNeil, E. H., 45.
McNew, G. L., 338.
Macpherson Philipps, G. W., 364.
MacRae, J. W., 29, 30.
McRostie, G. P., 135.
McShan, W. H., 51.
MacSwain, J. W., 58.
MacSwan, I. C., 3.
MacVicar, R. M., 137.
McVickar, M. H., 12.
McWhorter, F. P., 141.
Madel, W., 308.
Mader, W., 312.
Madsen, H. F., 180, 204.
Maeda, K., 333, 334.
Maercks, H., 70, 145, 351.

Maes, H., 361.
Magar, N. G., 332.
Magdorf, R., 244.
Magee, C. J., 84.
Magie, R. O., 268, 361.
Magill, W. W., 209.
Magistretti, G., 228.
Magnani, G., 226.
Magnin, J., 351.
Mahadevan, V., 285.
Mahdi, M. Z., 34.
Maheux, G., 378.
Mahmud, K. A., 27, 92, 138, 159, 173, 287, 293.
Mahon, J. A., 146.
Mai, W. F., 39, 119, 149, 172.
Maier, E. A., 343.
Maier-Bode, F. W., 111.
Maillet, P., 229.
Maines, W. W., 59.
Majid, S., 4.
Makarova, V. A., 347.
Maki, T. E., 245.
Makila, A., 165.
Makino, M., 142.
Makino, K., 153.
Maklakowa, G. F., 115.
Makruschina, A. T., 226.
Maksimović, M., 231, 246.
Malaguti, G., 94, 152, 281, 288
Maldonado Brussone, R., 48.
Malençon, G., 24.
Maletic, J. T., 343.
Malinowski, 14.
Maljko, B., 259.
Malkiel, S., 150.
Mallach, N., 180, 375.
Mallinjoud, H. M., 194.
Mallis, A., 296, 364.
Mallo, R. G., 48, 118.
Malmus, 116, 126.
Malmus, N., 59, 126, 370.
Malmus, R., 126.
Maltais, J. B., 52, 54, 318.
Malucelli, P., 375.
Mamontowa, A. N., 96, 314.
Manaresi, A., 223.
Mandelson, L. F., 176.
Mandeno, J. L., 304.
Manefield, T., 218.
Mangelson, F. L., 372.
Mangenot, F., 259, 318.
Manigault, E. L., 73.
Manil, P., 7, 19, 133.
Manis, H. C., 348.
Mańka, K., 241.
Mann, A. J., 178.
Mann, G., 304.
Mann, H. D., 373.
Mann, H. H., 103.
Mann, R. H., 308.
Manna, G. K., 279.
Mannes, 12.
Mansfeld, K., 75, 330.
Manson, G. F., 118.
Manunta, C., 120.
Manvilli, B., 351.
Manzer, F. E., 124.
Manzoni, G., 228.
Manzoni, L., 228.
Mappes, 157.
Mapson, L. W., 304.
Marais, J. G., 297.
Marais, J. S., 274.
Marais, J. S. C., 146.
Maramorosch, K., 17, 81, 266.
Mařan, B., 245.
Mařan, J., 324.
Marcelli, E., 141, 148, 150, 288.
Marčenko, N. K., 150.
March, R. B., 214, 351, 361.
Marchand, H. R., 145.
Marchand, J. F., 352.
Marchionatto, J. B., 39, 48, 84, 261, 313, 336, 378.
Marchioni, A. H., 106.
Marcovich, S., 86, 285.
Marcus, 102, 123, 355.
Marcus, C. P., 212.
Marcus jr., C. P., 134, 212.
Marcus, O., 125.
Marcus, S., 333.
Marek, J., 181.
Marescalchi, C., 380.
Marfil, S. D., 288.
Margara, J., 126.
Margheritis, A. E., 140, 360.
Margolin, A. F., 14.
Margolin, S. I., 370.
Margolina, K. P., 8, 89.
Mariconi, F. A. M., 285, 288.
Mariën, A., 157.
Marikowskij, P. I., 293, 328.
Marin H., C., 279.
Marinari, A., 128.
Marini, E., 35, 39, 90, 123, 347.
Marinković, B., 231.
Marinucci, M., 155.
Marion, H., 67.
Marion, J., 24.
Marki, H., 37.
Markides, A. S., 237.
Marlatt, R. B., 152.
Maroger, M., 271.
Marples, E. G., 244, 256.
Marquardt, P., 375.
Marr, G., 187.
Marr, R., 271.
Marsden, D. H., 243, 257, 262, 308.
Marsh, J. W., 252.
Marsh, R. W., 179, 201, 202.
Marshall jr., B. H., 268, 270.
Marshall, C. R., 304.
Marshall, D. S., 140.
Marshall, E., 165.
Marshall, G. E., 211.
Marshall, J., 180, 320.
Marshall, J. T., 6.
Marshall, M., 114.
Marshall, N. L., 28.
Mársico, O. J. V., 343.
Marston, R. B., 234.
Martakov, A. P., 259.
Martelli, M., 70, 352.
Martensen, 30.
Martignoni, M. E., 61, 324.
Martin, C., 78, 123, 266.
Martin, D. F., 194, 221.
Martin, F., 231, 274, 291.
Martin, G. W., 21.
Martin, H., 155, 194, 218, 336, 352.
Martin, J. F., 241.
Martin, J. H., 314, 323.
Martin, J. P., 9, 10, 290, 291, 321, 322.
Martin, J. T., 352, 375.
Martin, L., 336.
Martin, M. M., 332.
Martin, N., 10, 333.
Martin, R., 228, 343.
Martin, V. v., 267.
Martin, W. J., 284.
Martin jr. W. R., 190, 198, 207, 224.
Martínek, V., 249.
Martinez, A., 58.
Mártinez, J. B., 259.
Martinez, M. L., 96.
Martinez Andreu, A., 249.
Martini, 116.
Martini, E., 120.
Martorell, L. F., 288.
Martyn, E. B., 274, 285.
Martyn, E. J., 67, 145.
Martynowa, E. F., 252.
Marucci, P. E., 182, 211, 325.
Marvel, M. E., 161.
Marzocchella, A., 194.
Marzusch, K., 44, 120.
Maselli, J. A., 152.
Maseroli, 14.
Maseroli, E. N., 165, 202.
Masi, L., 73.
Masochin-Porschnjakow, G. A., 67, 231.
Mason, C. L., 190.
Massacesei, A., 155.
Massee, A. M., 86, 180, 205, 206, 212, 352.
Massenot, M., 25, 95, 311.
Massey, C. L., 63, 249.
Massey, C. W., 271.

Massey, D. M., 85, 271.
Massey, L. M., 271.
Massey jr., P. H., 111.
Mast, A. A., 128.
Masten, V., 224.
Mastenbroek, C., 116, 134, 314.
Masumoto, S., 19.
Masuyama, J., 8.
Mata Q., E., 114.
Mather, H. J., 343.
Mather, S. M., 212.
Matherne, R., 34.
Mathews, O. R., 314.
Mathias, A. F., 213, 218.
Mathiesen, A., 240, 249, 257.
Mathieu, A. M., 36.
Mathisen, M. C., 59.
Mathlein, R., 301.
Mathur, P. B., 305.
Mathur, R. N., 249.
Mathur, S. C., 293.
Matic, I., 30.
Matkowskij, S. T., 232, 246.
Matsubara, H., 366.
Matsuda, R., 106.
Matsui, C., 19.
Matsunaga, M., 99, 139.
Matsuyama, H., 336.
Matthee, J. J., 67.
Matthewman, 173.
Matthewman, W. G., 163.
Matthews, D. J., 262.
Matthews, F. M., 237.
Matthews, J. W., 273.
Matthews, L. J., 343.
Matthews, R. E. F., 78.
Matthysse, J. G., 42, 58, 254.
Mattos, R. A., 84.
Mattos Sierra, R. A., 292.
Mattson, A. M., 375.
Matumura, T., 362.
Matveenko, T. M., 305.
Mauch, A., 369, 370.
Maurer, K. J., 176, 178, 180, 190, 199.
Maurice, P., 194.
Mauvisseau, 89.
Mawatari, Sh., 308.
Maximow, N. A., 314.
Maxwell, C. W., 211.
Maxwell, C. W. B., 211.
May, A. W. S., 180, 197, 205.
May, C., 232.
Mayenburg, W., 111.
Mayer, 266.
Mayer, A., 361.
Mayer, E. L., 364.
Mayer, H. R., 120.
Mayer, K., 7, 67.
Mayhew, D. J., 240.
Maynard, E. A., 374.
Mayne, R. W., 300.
Mayne, R. Y., 275.
Mayor, E., 22.
Meadly, G. R. W., 343, 347.
Meadors jr., C. H., 36.
Meagher, G., 308.
Mechow, J. v., 39.
Meckstroth, G. A., 215.
Medel, 301.
Medler, J. T., 52, 140.
Medwedew, S. J., 44.
Medwedewa, W. I., 67.
Meenakshi, K., 29.
Meeuse, A. D. J., 310.
Mehl, S., 76, 296, 301.
Mehlisch, K., 176, 380.
Mehring, J., 14.
Mehrotra, B. S., 24, 293.
Mehta, P. P., 293.
Mehta, P. R., 6, 293, 336.
Meier, E., 18, 176.
Meierhans, 226.
Meijerink, W. E., 255.
Meiners, J. P., 25, 142, 312.
Meinke, 60, 223.
Meletti, P., 132, 137.
Melis, A., 51, 86, 128, 155, 375.
Mellini, E., 33, 175, 182, 218.
Mellor, F. C., 212.
Melman, M. E., 111.
Melničenko, A., 44.
Meltzer, J., 87.
Melville, A. R., 282.
Melville, F., 304.
Mendel, B., 358.
Mendes, O., 168, 215.
Mendoza, T. M., 13.
Menezes Mariconi, F. A., 288.
Menis, Y., 158, 168.
Menon, P. B., 352.
Menon, K. P. V., 285, 286.
Menusan jr., H., 118, 140.
Menzel, M. Y., 274, 275.
Menzel, R., 228.
Menzies, J. D., 123, 131, 141.
Menzies, G. C., 41.
Mercer, F. L., 82.
Mercier, J., 163, 167.
Meredith, O. M., 376.
Meredith, W. O. S., 88.
Merfield, A. G., 336.
Mergen, F., 232.
Merkenschlager, F., 6, 153, 347.
Merker, E., 249.
Merkl., M. E., 278.
Merl, E. M., 2.
Merny, G., 288.
Merriam, D., 124.
Merrill jr., L. G., 118, 156, 159.
Merthyr, 76.
Mertin, J. V., 316.
Merwarth, F. L., 171.
Mesa Bernal, D., 285.
Meschalowa, A. D., 226.
Messenger, A. P., 316.
Messenger, K., 370, 380.
Messiaen, C. M., 225.
Messing, J. H. L., 85, 266.
Metcalf, H. N., 132, 262.
Metcalf, P. E., 320.
Metcalf, R. L., 136, 214, 352.
Meteer, J. W., 308.
Métro, A., 232.
Meyer, E., 364.
Meyer, F. G., 32.
Meyer, F. J., 308.
Meyer, J., 42, 70, 255.
Meyer, J. K., 162.
Meyer, W., 296.
Meyer-Bahlburg, W., 35, 93.
Meyers, W. I., 257.
Mezzetti, A., 112, 159, 170, 199, 243, 264.
Mezzini, L., 84, 191.
Michaelis, H. N., 67.
Michaelis, P., 375.
Michaelis, W., 114.
Michel, E., 149.
Michelbacher, A. E., 166, 172, 187, 206, 222, 324, 370.
Michelmore, A. P. G., 282.
Michener, C. D., 67, 73.
Michiels, A., 361.
Mickle, G. T., 352.
Middlekauff, W. W., 73, 136, 166, 172, 206, 222, 324, 370.
Middleton, J. T., 22, 134, 160, 164.
Middleton, W., 316.
Miège, E., 157, 226, 356.
Mielke, J. L., 241.
Mieller, H., 75, 336.
Mikell, J. J., 284.
Mikkelsen, D. S., 125.
Mikola, P., 239.
Milán, M., 250.
Milbrath, J. A., 112, 123, 196.
Miles, G. F., 102.
Miles, J. R. W., 336.
Miles, M., 136, 163, 173.
Miles, P., 269.
Miles, P. W., 149.
Miles, Ph. M., 318.
Miles, V. I., 41.
Miletić, R., 54.
Milic, M., 30.
Millan, H. G., 48.
Millaud, R., 86.
Miller, A. C., 296, 364, 365.
Miller, E. V., 288.
Miller, F., 252.
Miller, G. A., 332.
Miller, H. F., 369.

Miller, H. J., 134.
Miller, J. C., 284.
Miller, J. H., 92, 131, 165, 234, 240, 269.
Miller, J. J., 20, 166, 259.
Miller, J. M., 317.
Miller, L., 280.
Miller, L. I., 281.
Miller, L. P., 21, 135, 338, 356, 357, 366.
Miller, L. W., 42, 145, 211, 352.
Miller, M. R., 281.
Miller, P. A., 142.
Miller, P. R., 84, 131, 157, 200, 286, 316, 320, 322, 338.
Miller, P. W., 212, 222.
Miller, R. L., 101, 332.
Miller, R. T., 102.
Miller, W. E., 93.
Millet, E. R., 62.
Millikan, D. F., 196.
Milliron, H. E., 204.
Mills, A. P., 310.
Mills, H. B., 313.
Mills jr., H. O., 158, 301, 320.
Mills, H. R., 375.
Mills, W. D., 187, 207.
Mills, W. R., 116, 314.
Milner, M., 90, 299.
Milone, M., 361.
Milosavljević, R., 67.
Milton, R. H., 148.
Milum, V. G., 67.
Minatta, M. J., 54.
Miner, F. D., 145.
Minev, K., 336.
Minges, P. A., 160.
Minz, G., 96, 213, 215.
Mir, P., 359.
Mir, R. M., 9, 226, 228.
Mirpulatowa, N., 276.
Mirzabekyan, R. O., 333.
Misaka, K., 355.
Misato, A., 361.
Mischkow, F. F., 232.
Mischling, F., 125.
Misezkij, J. S., 250.
Misra, A. P., 48, 152, 324.
Missonnier, J., 162, 205.
Mistikawi, Abd el Megid el, 279.
Mistric jr., W. J., 42, 350.
Mitchell, A. E., 178, 197.
Mitchell, C. J., 326.
Mitchell, H. K., 24.
Mitchell, J. A., 237.
Mitchell, J. W., 134, 333, 345, 347.
Mitchell, L. C., 362.
Mitchell, M. B., 24.
Mitchell, R. T., 252.
Mitchell, W. C., 172, 334.
Mitchener, A. V., 163, 362.
Mitjans Escala, J., 182.
Mitrofanow, P. I., 218.
Mitterer, J., 29, 57.
Mix, W. B., 257.
Miyake, T., 107.
Miyamori, A., 333.
Miyashita, K., 194.
Mizukami, T., 100.
Mizuta, H., 139.
Mjegalow, W. A., 318.
Moati Grane, J. R., 30.
Mochizuki, M., 136.
Modin, G. W., 256.
Möller, O., 315.
Moericke, V., 54.
Moerman, P. C., 139.
Moffett, B. W., 140.
Mogilko, N. V., 14.
Mohajir, A.-R., 96.
Moisejew, A. E., 62, 250.
Molinari, E., 305.
Moller-Racke, I., 42, 44.
Mollison, J. E., 319.
Momma, E., 48.
Mommers, J., 375.
Monbet, J., 293.
Monceau, G., 190.
Moncrieff, R. W., 310.
Moniz, L., 331.
Monkman, L., 199.
Monro, H. A. U., 296.
Monroe, C. M., 365.
Monseur, X. G., 364.
Montaldo, A., 111, 116.
Monte, G. D., 301.
Montégut, J., 113.
Montelaro, J., 169.
Mooar, M., 268.
Mooi, J. Ch., 261.
Montenegro, H. W. S., 144.
Montfort, C., 312.
Monticelli, F., 375.
Montserin, B. G., 288.
Mooi-Bok, M. B., 269.
Moon, H. H., 199, 200.
Moore, A. E., 5.
Moore, D. M., 30.
Moore, E., 336.
Moore, E. L., 148, 169.
Moore, F. J., 262, 272.
Moore, H., 28.
Moore, J. D., 196, 203, 212, 257.
Moore, L. A., 373.
Moore, M. B., 91, 102, 109.
Moore, M. D., 276.
Moore, M. H., 187, 192, 200, 203.
Moore, R. M., 30, 35.
Moore, R. R., 308.
Moore, St., 48.
Moore, W. C., 272, 316.
Moorhead E. L., 81.
Morales E., 283.
Morales Agacino, E., 48, 283.
Moran, W. G., 374.
Morawskaja, A. S., 252.
Moreau, 24.
Moreau, C., 24, 215, 239, 244, 274.
Moreau, F., 24, 333.
Moreau, M., 215, 239, 244, 265.
Moreira, S., 220.
Morel, G., 266.
Moreton, B. D., 163.
Morettini, A., 155.
Morgan, C. V. G., 183.
Morgan, E., 256.
Morgan, E. N., 241.
Morgan, G. T., 211.
Morgan, L. S., 252.
Morgan, N. G., 202.
Morgan, O. D., 81, 149, 339.
Morgan jr., O. D., 24, 339.
Mori, T., 107.
Morita, S., 179, 197.
Morley, A. M., 67.
Morley, D. W., 73.
Morling, R. J., 257.
Morosowa = Morozova
Morosowa, S. W., 331.
Morozova, G. S., 228.
Morozova, O. I., 33, 144.
Morris, C. L., 242, 243.
Morris, H. E., 31, 125, 132, 136.
Morris, J. G. L., 283.
Morris, L. G., 322.
Morris, R., 370.
Morrison, F. R., 366.
Morrison, H. E., 352.
Morrison, L., 352.
Morriss, D. J., 237.
Morrow, E. B., 209.
Morrow, J., 33.
Morrow, M. G., 364.
Morrow, W. B., 128.
Morschel, J. R., 152, 215.
Morstatt, H., 6.
Mortensen, E., 213.
Morton, H. L., 32.
Moseman, J. G., 99.
Moser, A., 250.
Moser, L., 224.
Moss, V. D., 241.
Mostafa, M. A., 276.
Mosti, A., 187.
Mothes, K., 93.
Motizuki, Y., 362.
Motohashi, S., 173.
Moultrie, L. G., 190.
Moxon, A. L., 17.
Mück, J., 60.
Mueggler, W. F., 139.
Mühlethaler, P., 110, 370.
Mühlow, J., 155.

Müller, 243.
Müller, D., 129.
Müller, E., 24, 28, 92.
Müller, F. P., 18, 54, 176, 178, 179, 181, 187, 206, 207.
Müller, H., 103, 170, 179, 207, 234, 359.
Müller, H. J., 313.
Müller, H. W. K., 158, 210, 262.
Müller, J., 252.
Müller, K. O., 116, 123.
Müller, K. R., 128, 136, 153, 159.
Müller, L., 312.
Mueller, L. A., 308.
Müller, W. K., 163, 165, 172, 211.
Müller-Kögler, E., 240.
Müllner, L., 224.
Münch, H., 330.
Münchberg, P., 339, 352.
Muenscher, W. C., 37.
Münster, J., 116, 123.
Müntzing, A., 90.
Muesebeck, C. F. W., 44.
Muhr, O., 67, 316.
Muir, 333.
Muka, A. A., 140.
Mukerji, S., 48, 320.
Mukherjee, S. K., 269.
Mukoo, K., 200.
Mulder, D., 178, 196, 199.
Mulder, E. G., 12.
Mulder, F., 129.
Muller, A. S., 84.
Mullin, R. S., 284.
Mullison, W. R., 343.
Munakata, K., 347.
Muncie, J. H., 113, 116.
Munding, H., 17.
Mundinger, F. G., 205, 208.
Mundkur, B. B., 26.
Munger, H. M., 160.
Mungomery, R. W., 292.
Munjal, R. L., 98.
Munk, A., 24.
Munn, M. T., 87, 321.
Munro, H. K., 70.
Munro, J. A., 296.
Muntañola, M., 92.
Murakishi, H. H., 270.
Murata, M., 362.
Murawjew, W. A., 125, 126, 297.
Murbach, R., 58, 60, 123, 140, 153.
Murillo, L. M., 279, 285.
Murneek, A. E., 197, 200, 342.
Murphree, L. C., 186, 277, 278.
Murphy, A. M., 129.
Murphy, E. F., 169.
Murphy, H. C., 93, 97.
Murti, B. K., 58.
Musaka, K., 136.
Muschnikowa, K. S., 172, 173.
Muspratt, V. M., 67.
Mussche, L., 180, 207.
Muterel, A., 365.
Mutilo, I. Z., 90.
Muzik, T. J., 343.
Myburgh, A., 187.
Myburgh, A. C., 155.
Myers, A., 321.
Myers, D. K., 358.
Myers, K., 323.
Myers, L. F., 30, 35.

Naccamuli, S., 102.
Nadel-Schiffmann, M., 215.
Naef-Roth, St., 16, 27, 170.
Naegele, J. A., 42, 254.
Nafthali, J., 288.
Nagasawa, S., 352.
Nagel, C. M., 96.
Nagel, R., 297, 301, 315.
Nagels, W., 10.
Nagy, J., 224.
Nair, K. N. R., 364.
Nair, M. R. G. K., 352.
Nair, U. K., 285.
Naito, T., 166.
Nakagawasai, H., 369.
Nakahara, H., 48.
Nakashima, H., 14.
Nakashima, T., 60.
Nakayama, R. M., 276.
Nakazato, Y., 359.
Nakazima, M., 362.
Nance, N. W., 84.
Nando, E., 318.
Nankivell, W. I., 214.
Naphtali, J., 75.
Narasimha Rao, P. L., 333.
Narasimhan, M. J., 26, 143.
Narasimhaswamy, R. L., 283.
Narayanamurti, D., 259.
Narayanan, E. S., 108, 292, 328, 352
Nariani, T. K., 27, 79, 150.
Nason, A., 169.
Natarajan, S., 334.
Natti, J. J., 123, 164.
Nattrass, R. M., 96.
Naude, T. J., 274.
Naumann, D., 30.
Naumowa, A. N., 11, 311.
Naundorf, G., 35, 103, 281.
Navarro, J. A., 292.
Nayak, U. B., 334.
Nayar, B. K., 29.
Nayar, P. N., 29.
Naylor, A. W., 161.
Neame, C., 187.
Nearing, G. C., 267.
Nearn, W. T., 259.
Nechiporchuk, I. D., = Netschiportschuk, I. D.
Neergaard, P., 270.
Neess, J., 77.
Neethling, J. L., 39.
Neethling, L. J., 145, 149, 322.
Nehring, K., 301.
Neiger, Y., 35.
Neilands, J. B., 26.
Neill, J. C., 35.
Neilson, C. L., 62.
Neilson Jones, W., 232.
Neiswander, C. R., 109.
Neiswander, R. B., 54, 262, 352.
Neitzert, 301.
Nel, R. I., 304.
Nélis, P., 76.
Nellis, D. C., 197.
Nelson, C. I., 114.
Nelson, H. D., 303.
Nelson, M., 134.
Nelson, P. E., 209.
Nelson, R., 174, 268.
Nelson, R. H., 352, 364.
Nelson, R. M., 235.
Nelson, R. T., 127.
Nelson, S. H., 198.
Nema, K. G., 28, 138, 152, 170, 266, 280, 324.
Neri, C., 155.
Nesbitt, E. T., 259.
Nesmejanow, A. N., 150.
Nessenius, 255.
Netschiportschuk, I. D., 90.
Nettles, W. C., 1, 44, 193, 301, 305.
Neugebauer, W., 252.
Neuhaus, K., 356.
Neuhaus, W., 76.
Neumark, S., 71, 286, 323.
Neuner, J., 226.
Neuns, A. G., 30.
Neuns, R. H., 235.
Neustifter, Ch., 259.
Neves, C. M. B., 84.
Newcomer, E. J., 183, 185, 187, 194, 283, 352.
Newell, R. E., 51, 73.
Newhall, A. G., 17, 159, 160, 266.
Newland, H. B., 237.
Newman, L. H., 67.
Newmark, P., 150.
Newsom, L. D., 279.
Newton, H. C. F., 84.
Newton, J. H., 205, 206.
Newton, L. G., 37.
Newton, N., 270.

Newton, W., 17, 18, 22, 118, 264, 356.
Niblett, M., 8, 70, 73.
Niccolini, L., 237.
Nichol, J., 281.
Nicholas, D. J. D., 169.
Nichols, C. W., 82, 150, 196.
Nicholson, J. F., 300.
Nickell, L., 30.
Nickell, L. G., 79, 293, 318, 343.
Nickels, C. B., 222.
Nickl-Navratil, H., 152.
Nico, R. A., 106.
Nicolaisen, N., 304.
Nicolaisen-Scupin, L., 304.
Nicolas, G., 22.
Nicolini, J. C., 37, 155.
Nielsen, L. W., 284.
Nielsen, O., 343.
Nielson, M. W., 81.
Niemann, 379.
Niemann, E., 174.
Niemeyer, L., 223.
Nieminen, L., 343.
Nienstaedt, H., 221.
Nieser, O., 33.
Niethammer, A., 333.
Nigam, P. N., 294.
Nijveldt, W., 73, 182.
Nikiforow, A., 296, 352.
Nikiforow, A. M., 336.
Nikitin, P. D., 232.
Nikitiuk, A. I., 250, 328.
Nikolaew, P. I., 226.
Nikolić, V., 154.
Nikolowa, W., 156.
Nikulin, I. A., 14.
Nilowa, W. P., 96.
Nilsson, L., 100, 162.
Nilsson, R., 96, 304.
Nirula, K. K., 285, 286.
Nishida, K., 28.
Nishida, S., 147.
Nishio, Y., 107.
Nishizawa, T., 104, 139, 284.
Nissley, C. H., 304.
Nitsch, J. P., 8.
Niven, L. A., 188, 352.
Nix, M., 46.
Nixon, E. L., 320.
Nizamlïoğlu, K., 54, 67, 182, 205, 206, 316.
Noack, E., 271.
Noble, M., 114.
Noble, W., 16.
Noble, W. B., 352.
Noel, L. E., 237.
Noell, 14.
Noer, O. J., 141.
Nørlund, S., 103.
Nogaki, K., 54, 106.
Nohara, Y., 35, 240.
Noilhan, H., 35.
Noirot, C., 50.
Nolan, K. G., 358.
Noll, C. J., 158, 162, 173.
Noll, J., 262.
Noll, L., 207.
Nolte, H.-W., 39, 153, 154, 156, 209, 211.
Nolz, O., 178.
Nonveiller, G., 67, 279.
Noone, J. A., 343.
Noordam, D., 261, 262, 266.
Nord, F. F., 151, 152.
Nordman, A. F., 67.
Norman, P. A., 218, 219.
Norman, W. C., 275.
Norris, J. J., 36.
Norris, M. J., 48, 140.
Norris, R. E., 218.
Nortjé, J. H., 92, 142.
North, C., 157, 161.
Northen, R. T., 270.
Norton, D. C., 39, 166.
Norton, L. B., 187, 361, 374.
Nosek, J., 63.
Nothdurft, W., 16.
Notini, G., 76.
Novák, K., 59.
Novák, V., 73.
Novikoff, P., 67.
Nowak, A., 259.
Nowak, W., 54.
Nowikow, W. P., 90.
Nowizkaja, T. N., 357.
Nuckols, L. T., 308.
Nugent, L. B., 31.
Nugent, T. J., 131.
Nuorteva, P., 54.
Nusbaum, C. J., 146, 148.
Nutman, F. J., 293.
Nutter, G. C., 144, 145.
Nybom, N., 16, 17.
Nyholm, T., 62.
Nyland, G., 82, 196.
Nylund, R. E., 144, 341, 343.

Oberhauser, S. J., 343.
Oberlaender, 35.
Oberly, G. H., 187.
Oberthür, K., 305.
Obertreis, 298.
Obradović, M., 140.
O'Brien, M., 84, 316, 320.
O'Brien, M. J., 1.
Ocheretianyi, V. A., = Otscheretjanyi, W. A.
Ochi, H., 312.
O'Colla, P., 362.
Oddie, T. H., 370.
Odland, M. L., 162, 173.
Odom, R. E., 269.
O'Donnel, M. L., 311.
Ødegård, K., 22.
Ødelien, M., 167.
Öğmen, S., 279.
Øhlers, H., 380.
Öppinger, H., 333.
Oettingen, H. v., 51.
Øyen, K., 336, 370.
Özkan, A., 76.
Özkan, M., 83, 378.
Offhaus, K., 301.
Offner, H., 232.
Offord, H. R., 241.
Ogata, K., 304.
Ogihara, T., 90.
Ogloblin, A., 48, 328.
Ogden, D. B., 35, 127.
Ogi, K., 331.
Ogilvie, L., 157, 172.
O'Grady, T. J., 294.
Ohno, M., 361, 364.
Oiwa, T., 364.
Oka, C., 214.
Oka, T., 87.
Okami, Y., 333, 334.
Okamoto, S., 191.
Oksentjan, U. G., 91.
Okudai, S., 182, 194.
Okuntsow, M. M., 90.
Olalquiaga Faure, G., 107, 247.
Oland, K., 199.
Olberg, G., 328, 330.
Olbrich, A., 14.
Oldewurtel, H. A., 169.
Olds, H. F., 316.
Olesen, J., 57.
Olgyay, M., 24.
Olien, C. R., 102.
Olive, L. S., 26.
Olivier, D. L., 92.
Olmo, H. P., 175.
Olmstedt, T. S., 111.
Olney, V. W., 205.
Olsen, H. K., 336.
Olsen, M., 14.
Olson, C. J., 266.
Olson, D. S., 236.
Olson, E. O., 213.
Olson, H., 259.
Olson, P. J., 88, 90, 103.
Omori, N., 220.
Omura, R., 215.
O'Neill, W. J., 197, 205.
Ono, H., 347.
Ono, K., 99.
Ono, T., 224.

Oort, A. J. P., 93, 209.
Oostenbrink, M., 39, 112.
Opengo Escamilla, F., 237.
Ophof, A. J., 75, 355.
Opitz, K. W., 215.
Oppenfeld, H. v., 197.
Orchard, H. E., 32, 33, 343.
Orchard, W. R., 262.
Orcish, F. C., 48.
Ordanini, P., 103.
Ordish, F. G., 96.
Ordish, G., 380.
Orian, G., 4.
Orleans, L. P., 298.
Orloś, H., 2.
Ormrod, J. F., 103.
Ormsby, H. W., 215.
O'Rourke, F. J., 73.
Orr, R. T., 352, 375.
Orsat, C., 225.
Orsat, J. O., 224.
Orsenigo, M., 220.
Orshanskaya, V. N., 215.
Orsini, M. W., 76.
Ortega, B. C., 113.
Ortega, J. C., 188, 220, 222.
Ortega Cantero, B., 88.
Orth, H., 122.
Ortiz, R., 48.
Ortíz Garmendía, J., 35, 286.
Ortmeyer, W., 14.
Osburn, M. R., 219.
Oshima, Y., 364.
Osipowa, N. I., 167.
Osmun, J. V., 352, 370.
Osnitskaja, E. A., 167.
Ossiannilsson, F., 54, 205.
Ossowski, L. L. J., 320.
Osterwalder, A., 191, 224.
Ostojić, N., 337.
Ostrowskij, N. I., 67, 128.
Ostrowskaja, E. N., 48.
Osuna, P., 283.
Osvald, H., 343.
Oswald, J. W., 54, 109, 114.
Otamendi, J. C., 73.
Ōtani, Y., 99.
Oteifa, B. A., 38, 39, 136.
Otey, G. W., 377.
Otis, C. E., 343.
Otscheretjanyi, W. A., 139.
Ottosson, L., 366.
Oughton, J., 163.
Oughton, J. G., 162, 372.
Ovando, C. L., 213.
Overell, B. T., 24.
Overholt, P. M., 343.
Overholts, L. O., 26.
Owaki, Y., 333.
Owen, D. F., 67.
Owen, F. V., 129.
Owen, H., 142.
Owen, J. H., 166.
Owen, O., 85, 266, 271.
Owen, W. L., 107.
Owen jr., W. L., 54, 279.
Owens, H. B., 320.
Owens, R. G., 21, 366.
Owetschkin, S. K., 90.
Oxley, T. A., 300.
Oyama, T., 138.
Oyer, E. B., 144.

Pachlewski, R., 178.
Packard, C. M., 301, 314, 323.
Packer, N. T., 140.
Paclt, J., 273.
Paddock, W. C., 7.
Padfield, C. A. S., 304.
Padii, N. N., 250, 255.
Pagán, C., 364.
Paharia, K. D., 288.
Paine, J., 153.
Painter, R. H., 107, 109, 352.
Paissanidis, S. E., 205.
Pal, K. B., 310.
Palm, B., 243.
Palm, E. T., 268.
Palmer, C., 40.
Palmer, E., 316, 352.
Palmer, E. I., 73.
Palmer, H. C., 356.
Palmer, J. E., 305.
Palmer, M. A., 160.
Palmiter, D. H., 200.
Paludan, F., 245.
Paly, W. F., 125.
Pamir, H., 12.
Pandalai, K. M., 285, 286.
Pande, C. B., 273.
Pande, J. N., 259, 260.
Panic, Z., 223.
Panjan, M., 226, 298.
Pansky, B., 76.
Papaïoannou, A. J., 156.
Pape, H., 17, 269.
Papp, C. S., 63.
Pardee, A. B., 80.
Pardo Miro Quesada, C., 292.
Paré, J., 199.
Parfilova, M. E., 242.
Parham, B. E. V., 281.
Parisinos, J., 343.
Park, B., 271.
Parker, E. R., 177, 213, 219.
Parker, J. R., 6, 48, 50.
Parker, K. G., 196.
Parker, W. B., 194.
Parker-Rhodes, A. F., 26.
Parkin, E. A., 301.
Parks, D. L., 31.
Parks, N. M., 298.
Parks, R. R., 315.
Parks, T. H., 109, 296.
Parmenter, L., 174.
Parmenter, R. B., 259.
Parr, W. J., 42.
Parris, G. K., 166.
Parrish, C. P., 127, 128.
Parrott, A. W., 288.
Parry, J., 33.
Parsons, J., 376.
Parsons, J. L., 114.
Pasfield, G., 170.
Pasinetti, L., 155, 216.
Pasquier, 220.
Pasquier, R., 48.
Pass, H., 320.
Passlow, T., 152.
Pastrana, J. A., 65, 324.
Patel, G. A., 48, 288, 362.
Patel, H. K., 288.
Patel, I. M., 148.
Patel, M. K., 19, 31, 53, 94, 114, 272, 273, 288, 293, 312, 324, 338.
Paterson, D. R., 298.
Paterson, J. J., 370.
Patil, B. P., 25, 94.
Patil, R. B., 331.
Patiño, B., 282, 356.
Patrick, S., 91.
Patrizi, S., 73.
Patterson, E. B., 90.
Patterson, J. D., 356.
Patton, R. F., 243.
Patton, R. L., 47.
Pauck, 18, 67, 176, 188.
Pauck, P., 167.
Pauli, O., 310.
Pavan, M., 333.
Pavgi, M. S., 26.
Pavillard, J., 79.
Pawlow, I. F., 67.
Pawlow, I. P., 35.
Payak, M. M., 26.
Payette, A., 209.
Payfer, R., 365.
Payne, G. F., 36, 343.
Payne, M. G., 112, 370.
Peabody, D. V., 209.
Peace, T. R., 232.
Peach, M., 312.
Peacock, F. C., 361.
Peacocke, N. E., 352.
Peak, A. R., 122.
Peak, J. W., 78.
Pearce, G. W., 185, 352, 358, 369, 375.

Pearson, R., 77.
Pedreira, A. C., 283.
Peek, N. S., 342.
Peek jr., N. S., 144.
Peel, A. C., 295.
Peeters, F. J., 33, 57, 68.
Peglion, V., 203.
Peichl, L., 191.
Peikert, F. W., 110.
Peissner, L., 52.
Pélécassis, E. D., 83.
Pellegrini jr., J. P., 364, 365.
Pelluchi, L., 172.
Pelikan, J., 51.
Peltier, M., 274.
Peña Durán, R., 216.
Pendergrast, J. G., 52.
Penfold, A. R., 366.
Penhallow, R., 331.
Pennisi, L., 213.
Penton, A., 76.
Peoples, S. A., 375.
Pepper, J. H., 48, 140.
Pepper, J. O., 51.
Pequignot, R., 129.
Perdeck, A. C., 48.
Perdriau, M., 197.
Peregontschenko, B. M., 223, 293.
Pereira, H. F., 301, 303.
Perez, L., 259.
Perez Alcala, R., 48.
Perez Reyes, G., 279.
Perez-Salas, 228.
Pericart, G., 222.
Pericart, J., 222.
Perilă, O., 308.
Perini, M., 362.
Perišić, M., 21, 223.
Perkins, J. F., 328.
Perlman, D., 333.
Perlman, F., 33.
Perović, B., 259.
Perret, J.-E., 218.
Perron, J. P., 159, 163, 328.
Perry, B. A., 37, 347.
Perry jr., J. P., 250.
Perry, V. G., 38, 39.
Persons, T. D., 196.
Persson, B., 112.
Perttunen, V., 50.
Perucci, E., 149.
Pesante, A., 26, 312.
Peschaut, 232.
Pesola, V. A., 96.
Petch, C. E., 185, 188.
Peters, B. G., 39, 119.
Peters, E. H., 111.
Peters, N., 363.
Petersen, B., 68.
Petersen, B. B., 241, 249.
Petersen, D. H., 191, 192.
Petersen, H. I., 17, 322, 343, 346, 375, 378.
Petersen, J., 269.
Peterson, A., 317.
Peterson, A. G., 136, 137, 140.
Peterson, D. F., 126.
Peterson, E. A., 101, 332.
Peterson, E. L., 148.
Peterson, L. C., 116, 119.
Peterson, L. E., 284.
Peterson, W. H., 138, 332.
Petitjean, R., 218.
Peto, F. H., 125.
Petrak, F., 20, 21, 25, 27, 28, 294.
Petrik, A., 68, 378.
Petrik, C., 39, 48, 68, 125, 182, 301.
Petrosian, F. G., 228.
Petrowa, T. N., 69.
Petruha, O. I., 125.
Petruschowa, N. I., 216, 271.
Pettinari, C., 167.
Petty, H. B., 131.
Peturson, B., 25.
Petzsch, H., 77, 296, 330.
Peyer, E., 308.
Peynaud, E., 312, 333.
Peyresaubes, R., 308.
Peyronel, B., 28.
Pfaff, W., 358.
Pfannenstiel, W., 375.
Pfeffer, A., 232.
Pfeifer, S., 75, 188.
Pfeiffer, K. L., 41.
Pfeiffer, R., 36, 103.
Pfisterer, E., 14.
Pfleghar, 188.
Pfleiderer, 375.
Pfrimmer, T. R., 278.
Phares, 137.
Philipp, W., 188.
Philippot, E., 373.
Phillips, A. M., 194, 221, 222.
Phillips, F. S., 320.
Phillips, G. L., 279.
Phillips, W. M., 36, 104, 343.
Phillips, W. R., 298, 304.
Piacco, R., 104, 316, 343, 347.
Pic, M., 56.
Piccardo, G., 362.
Picci, G., 354.
Picco, D., 68, 226, 252.
Pichler, F., 88, 96, 99, 102.
Pickett, A. D., 188.
Pickett, J. T., 191.
Pickett, T. A., 280.
Pickett, W. F., 199.
Pidacks, C., 20.
Piekarski, G., 5.
Pielou, D. P., 329.
Pieper, H., 1.
Pieri, G., 226, 228, 339.
Pierpoint, M., 22.
Pietschmann, E., 12.
Pilaski, 12.
Pilet, P.-E., 267.
Pillault, R., 54, 74.
Piller, J., 259.
Piltz, H., 210.
Pimenova, A. S., 162.
Pindur, W., 60, 102, 188, 301, 336.
Pinheiro, J. V., 33.
Pintera, A., 54, 247.
Pinto-Lopes, J., 26.
Pinto Salvatierra, J., 318.
Pinto Viegas, A., 283.
Piquer, G., 266.
Piquett, P. G., 48.
Pirie, N. W., 2.
Pirone, P. P., 240.
Pirovano, A., 226.
Pisarska, M., 5, 232.
Pisek, A., 14.
Piskowoj, F. R., 375.
Pistor, W. J., 31.
Pitcher, R. S., 70, 210, 211.
Pittenger, T. H., 24.
Pittman, H. A. J., 266.
Pjawtschenko, N. I., 237.
Plakidas, A. G., 141, 173, 270, 272.
Planes García, S., 182, 186, 213, 218, 278, 350.
Plant, W., 37, 144, 168.
Plantefol, L., 152.
Plaot, N., 45.
Plate, H.-P., 40, 41, 54, 269, 336, 370.
Plateau, H., 10.
Plattner, P. A., 333.
Platone, E., 356.
Platzer, S., 298.
Plaut, N., 155.
Playfair, L., 343.
Plotho, O. v., 126.
Plumb, G. H., 255.
Plumb, J. L., 43.
Plummer, B. E., 91, 112.
Plummer jr., B. E., 88, 111, 356.
Plummer, P. J. G., 359.
Poapst, P. A., 304.
Pochon, H., 61.
Podhradszky, J., 94.
Podmore, P. S. M., 330.
Podtiaguin, B., 48, 316.
Poehlman, J. M., 88.
Pohjakallio, O., 96.
Pohl, R., 8, 347.
Poletaef, N., 343, 347.
Poljakow, P., 97.
Polivka, J. B., 60, 61.
Pollak, S. W., 48, 380.
Pollanetz, 84.

Pollard, E., 81.
Pollard, E. C., 81.
Pollard, H. N., 204, 325.
Polosuchin, G. G., 256.
Polozhentsew, P. A., 252.
Pon, D. S., 99.
Ponchet, J., 96, 100, 115.
Ponomarenko, A. W., 232.
Pontis Videla, R. E., 134, 288.
Poole, C. F., 168.
Poole, C. M., 111.
Poole, D. D., 93.
Poos, F. W., 5, 48, 140, 373.
Pope, D. T., 160.
Popham, W. L., 54, 86, 352, 370, 380.
Popov, G., 49.
Popovic, V., 259.
Popp, W., 318.
Poppe, K., 333.
Poppius, E., 375.
Porritt, S. W., 304.
Porter, B. A., 188, 352, 375.
Porter, C. A., 141.
Porter, C. L., 28, 174.
Porter, D. R., 165.
Porter, T. W., 52.
Portman, R. W., 140, 182.
Portier, P., 44.
Portsmouth, G. B., 289.
Porzer, W., 259.
Poschinger, F. v., 56.
Posner, I., 70.
Posnette, A. F., 184, 207, 212.
Possompès, B., 70.
Post, G., 375.
Post, K., 311.
Post, R. L., 118.
Postma, H., 10, 12.
Potter, C., 320, 336, 352, 365.
Potter, C. H., 9.
Potter, G. C., 301.
Potter, J. M. S., 197.
Potuljnitskij, P. M., 33.
Poulos, P. L., 192, 200.
Pound, G. S., 79, 164, 170, 173, 174.
Pourcharesse, P., 225, 226.
Povlsen, H. H., 362.
Powell, D., 209.
Powell, T., 331.
Powers jr., H. R., 148.
Powers, M. R., 276.
Powers, W. J., 190.
Pozefsky, A., 364.
Pozhar, Z. P., 125.
Pozo Lora, R., 330.
Pozzi, E., 370.
Pozzi-Escot, M. E., 356.
Pradhan, S., 352, 359.
Prasad, N., 148, 266, 294.
Prasada, R., 4, 96, 133.
Prat, H., 8.
Pratolongo, U., 318, 352.
Pratt, A. N., 197.
Pratt jr., J. J., 42, 353.
Pratt, R. M., 218.
Prebble, M. L., 232.
Prentice, I. W., 212, 266.
Prescott, E., 376.
Prescott, H. W., 50, 330.
Preseren, T., 180, 194.
Prešern, T., 226.
Presley, J. T., 294.
Preston, A. P., 178.
Prew, H. A., 192.
Prey, V., 353.
Priaulx, A. W., 256.
Price, C., 129.
Price, M. D., 296.
Price, W. A., 109, 353.
Price, W. C., 79, 80, 81, 82, 150, 267.
Price, W. H., 78.
Price Gaviria, C., 68, 118, 329.
Pridham, A. M. S., 31, 34.
Pridham, T. G., 276.
Priefer, H., 126.
Prihoda, A., 329.
Primost, E., 90, 144, 347.
Primrose, C., 283.
Princ, J. I., 228.
Princi, F., 375.
Principi, M., 353.
Principi, M. M., 68.
Princis, K., 49.
Pringle, R. B., 20.
Prints, J. I., 194.
Priol, J., 199.
Prisiazhnjuk, A. A., 250.
Pristou, R., 170.
Pritchard, A. E., 70, 183, 211, 263, 273.
Priwalowa, K. P., 372.
Probst, A. H., 133.
Prochazka, F., 156.
Procter, C., 348.
Procter, C. H., 123.
Proctor, B. E., 275.
Prochorow, N. K., 214.
Pronin, G. F., 250.
Propst, L. M., 169.
Protsenko, E. P., 268.
Proulx, J. R., 333.
Prothon, J., 55.
Provaglio, G., 68.
Prozumenschtschikowa, L. T., 232.
Pryor, M. R., 36.
Przygodda, W., 120, 330, 331, 375.
Pschorn-Walcher, H., 64, 68, 77, 182, 259.
Puchkov, V. G., = Putschkow, W. G.
Puleston, H. S., 370.
Puliga, E. Q., 33.
Pultz, L. M., 164.
Pumphrey, F. V., 112.
Pupillo, M., 22, 155, 175, 192, 201, 216, 222, 224.
Purdy jr., L. H., 168, 226.
Purss, G. S., 139.
Purswell, D., 148.
Purswell, H. D., 353.
Purushotham, A., 259, 260, 309, 310.
Purvis, E. R., 12.
Pushkarnath, 79.
Pustovoit, G., 279.
Putman, W. L., 207.
Putnam, L. G., 47.
Putschkow, W. G., 125.
Puttarudraiah, M., 58, 288.
Puzzilli, M., 147, 148.
Py, C., 287.
Pyenson, L., 44, 353.

Qadri, M. A. H., 246, 329.
Quamme, A. G., 127, 298.
Quanjer, H. M., 9.
Quantz, L., 131, 136, 168, 298.
Quassowski, H., 188.
Quastler, H., 370.
Queisser, H., 270.
Questel, D. D., 109.
Quidet, P., 60.
Quillon, P., 9.

Raab, 370.
Raabe, R. D., 174.
Raabe, W. W., 31.
Rabaud, E., 68.
Rabbage, L. H., 309.
Racicot, C., 199.
Racicot, H.-N., 170, 207.
Radcliffe, D. M., 252.
Radeleff, R. D., 375.
Rademacher, B., 12, 126, 128, 343.
Rader, W. E., 304, 365.
Radko, A. M., 35.
Radovanovitch, J., 148.
Raghavan, A., 279.
Raheja, P. C., 30.
Raimondo, G., 14.
Raineri, C., 9, 333.

Rainwater, C. F., 42, 279.
Raju, R., 272.
Raju, R. N., 354.
Ram, K. B., 288.
Ramachandran, L. K., 19.
Ramachandran, S., 353.
Ramadier, P., 45.
Ramakrishnan, K., 21, 28.
Ramakrishnan, T. S., 10, 21, 26, 142, 286, 312.
Raman, C. A., 375.
Ramasarma, G. B., 79.
Rambier, A., 46.
Ramiah, K., 99.
Ramiah, R. V., 104.
Ramirez-Sánchez, A., 104.
Ramme, W., 49.
Rampton, H. H., 144.
Ramsey, G. B., 157, 165, 174.
Ramsey, G. R., 259.
Ramsey, J. D., 353.
Ramsfjell, T., 12, 79, 110, 170, 176, 185, 188, 192, 263, 264, 269, 339.
Randall, A. G., 237.
Randolph, C., 343.
Randolph, J. W., 37, 370, 371.
Randolph, L. K., 300.
Rangaswami, G., 98.
Rangaswami, S., 365.
Rankin, D. F., 123.
Rankin, H. W., 285.
Rao, A. S., 174.
Rao, C. J., 279.
Rao, G. N., 292.
Rao, K. R. N., 269.
Rao, M. B. V., 14.
Rao, N. V. S., 356.
Rao, P. A., 279.
Rao, P. K., 29.
Rao, P. L. N., 333.
Rao, S. N., 71.
Rao, V. P., 318, 378.
Raper, K. B., 276, 333.
Rapin, J., 96, 137.
Raschewskaja, W. F., 96.
Raski, D. J., 39, 163, 210, 264.
Raskin, S. E., 90, 167.
Rasmussen, C. R., 312.
Rasmussen, L. W., 179.
Rasmussen, P. M., 303.
Ratcliff, R. Y., 275.
Ratcliffe, F. N., 51, 323.
Rath, 182, 272.
Raucourt, M., 339.
Raul, A., 104.
Raul da Silva, A., 96.
Rauscher, H., 336.
Rawle, S. G., 311.
Rawlings, G. B., 255, 329.
Rawlins, T. E., 80.
Rawlins, W. A., 159.
Raychaudhuri, S. P., 46, 49, 172, 279.
Raymond, L. C., 144.
Rayner, R. W., 283.
Raynor, R. N., 1, 344.
Rayss, T., 26.
Razafimahery, R., 362.
Razous, P., 232.
Razwjazkina, G. M., 150.
Rea, H. E., 33, 35, 276.
Read, W. H., 85, 166, 263, 339.
Ready, D., 8.
Real, P., 68.
Rebert, A. F., 170.
Rebour, H., 176, 214.
Rebstock, 132.
Reckendorfer, P., 17, 226.
Reddy, C. S., 131.
Redlinger, L. M., 299, 301.
Reece, P. C., 214.
Reed, H. E., 92, 99.
Reed, H. L., 375.
Reed, J. K., 353.
Reed, J. P., 157, 158, 373.
Reed, M. R., 301.
Reed, M. S., 324.
Reed, T. W., 362.
Reed, W. G., 379.
Reeks, W. A., 74, 329.
Rees, H., 24.
Refatti, E., 199, 203, 304.
Regeimbal, L. O., 199.
Regel, C., 240.
Reginster, P., 245.
Régnier, R., 2, 60, 254, 323.
Rehfous, M., 6.
Rehm, H. J., 240.
Rehm, S., 8.
Rehn, J. A. G., 49.
Reich, H., 63, 77, 176, 180, 187, 188, 205.
Reichert, I., 220.
Reichmuth, W., 77, 353.
Reid, J., 259.
Reid, R. D., 209.
Reid, W. D., 29.
Reid jr., W. J., 163.
Reiff, M., 355.
Reilly, J. J., 99.
Reinhardt, F., 12.
Reinhardt, W., 77.
Reinhart, J. H., 132.
Reininger, H., 77.
Reinke, H., 378.
Reinmuth, E., 84, 336.
Reisinger, 375, 378.
Reisinger, E., 60, 119, 120.
Reiter, C., 31.
Reitsma, J., 289.
Remedi, A. L., 57.
Remington, C. L., 68.
Renjhen, P. L., 287.
Rennerfelt, E., 242, 257, 259, 309.
Repp, G., 17.
Resende, F., 17.
Resnick, S. L., 360.
Restrepo, L. E., 301.
Retan, A. H., 180.
Reti, M., 360.
Reusser, P., 8, 16.
Reuther, W., 214.
Revilla M., V. A., 276, 292.
Rex, E. G., 240, 257.
Rey, P., 147, 305.
Reyes, M. A., 353.
Reyes, M. G., 292.
Reynolds, H. T., 105, 348.
Reynolds, J. G., 343.
Reyntens, H., 144, 315, 344.
Rhoads, A. S., 242, 286.
Rhoads, W. A., 215.
Rhodes, A., 169.
Rhodes, N., 44, 329.
Riabuschin, P., 259.
Rjadnowa, I. M., 222.
Ribaldi, M., 232, 270.
Riberéau-Gayon, J., 312, 333.
Ricci, A., 336.
Riccitelli, J. A., 344.
Riceman, D. S., 12.
Rich, A. E., 114, 123.
Rich, S., 28, 339, 361.
Richard, G., 51, 339.
Richards, A. G., 303.
Richards, A. P., 309.
Richards, A. V., 288.
Richards, B. L., 102, 192, 196.
Richards, E. L., 372.
Richards, F. J., 90.
Richards, S. J., 289.
Richards, T. J., 49.
Richardson, A., 68.
Richardson, A. M., 286.
Richardson, B. H., 159.
Richardson, C. H., 301.
Richardson, H. H., 288, 304.
Richardson, H. P., 183.
Richardson, J. K., 114.
Richardson, J. M., 33.
Richardson, L. T., 339.
Richardson, S. D., 237.
Richer, A. C., 11.
Richey, E. P., 240.
Richmond, G. L. G., 353.
Richter, G., 60, 250.
Richter, H., 2, 114, 296.
Richter, W., 36, 141, 144.
Rick, C. M., 169.
Ricker, D. W., 287.
Riddick, J. A., 351.
Ridé, M., 27, 221.
Rideal, E. K., 345.

Rideout, D. W., 117.
Ridgway, W. O., 372.
Rieck, W., 375.
Riedeburg, Th., 356.
Riehl, L. A., 185, 214, 215, 218.
Riehm, E., 6.
Rieman, G. H., 110, 114.
Riemens, J. M., 171.
Riemschneider, R., 5, 350, 362.
Riepma, P., 17, 35, 131, 135, 344.
Ries, S. K., 370.
Rietberg, H., 129.
Rietschel, P., 55.
Rieuf, P., 90, 99, 175, 191.
Riga, A., 16.
Riherd, P. T., 145, 329.
Riker, A. J., 19, 138, 150, 242, 243, 332.
Riley, C. G., 85, 242.
Riley, E. A., 147, 173.
Riley, H. P., 370.
Rindge, F. H., 68.
Ringdahl, O., 71.
Ringleben, H., 331.
Rings, R. W., 194, 357.
Riollano, A., 292.
Ripley, L. B., 216.
Ripley, P. O., 347.
Rippel-Baldes, A., 1.
Ripper, W. E., 1, 347, 353.
Ripperton, J. C., 344.
Riquelme Inda, J., 232.
Ririe, D., 125.
Risbec, J., 154, 163, 329.
Risch, N. A., 96.
Risco Briceno, S. H., 292.
Rishbeth, J., 242.
Ristich, S. S., 163.
Ritcher, P. O., 281.
Ritter, M., 39.
Rivals, P., 301.
Rivera, H. R., 301.
Riveros, J. E., 111, 168, 183, 226, 316.
Rivinus, M. W., 49.
Rivnay, E., 44.
Roach, F. A., 192, 200.
Roach, H. Q., 297.
Roach, W. A., 12.
Roach, W. E., 188.
Roan, C. C., 46, 183.
Roane, C. W., 99, 109, 318.
Roark, R. C., 353, 362, 365.
Robak, H., 240.
Robbins, W. J., 332.
Robbins, W. W., 1, 344.
Robert, A. L., 28, 99.
Robert, P., 55, 59.
Roberti, D., 194, 247, 261.
Roberts, D. A., 81, 85, 123, 263.
Roberts, E., 79.
Roberts, F. M., 293.
Roberts, H. A., 17, 366.
Roberts, J. E., 35.
Roberts, R. A., 63, 285.
Roberts, R. M., 336, 353.
Roberts, W. W., 210.
Robertson, C., 364.
Robertson, J. S., 292.
Robertson, N., 268.
Robertson-Cuninghame, R. C., 37.
Robin, F., 203.
Robinson, A. G., 183, 329.
Robinson, D., 49.
Robinson, D. D., 237.
Robinson, D. H., 315.
Robinson, E., 29.
Robinson, H. S., 44.
Robinson, P. T., 127.
Robinson, R. G., 152.
Robinson, T. G., 260.
Robles, L. R., 344.
Robson, J. W., 263.
Rocasolano, C., 336.
Roche, W., 57.
Rochow, W. F., 79.
Rodale, J. I., 263, 353.
Rode, O., 232.
Rodenberg, S. D., 150.
Rodgers III, A. D., 1.
Rodgers, E. E., 237.
Rodgers, E. G., 90.
Rodney, D. R., 15, 197.
Rodrian, 223.
Rodriguez, J. G., 42, 109, 172, 262, 353.
Rodriguez, L. D., 172.
Rodriguez Landaeta, A., 170, 286, 288.
Rodriguez Sardiña, J., 353.
Røed, H., 159.
Roehrich, R., 181, 194.
Roemer, Th., 1.
Rönnebeck, W., 123.
Roepke, W., 68, 272.
Roesler, 184.
Roesler, R., 68, 211.
Rof Codina, J., 333.
Rogenhofer, E., 31, 104.
Rogers, B. L., 198.
Rogers, C. H., 6.
Rogers, H. T., 347.
Rogers, J. S., 88.
Rogers, W. S., 14, 178.
Rogerson, C. T., 312.
Rogoff, W. M., 263.
Rohan, J., 132.
Rohde, G., 162.
Rohrbach, H., 316, 379.
Rohrbaugh, P. W., 214.
Rohwer, S. A., 353.
Roistacher, C. N., 17, 322.
Rojo, N. A., 149.
Rol, R., 232.
Roland, A. E., 31.
Roland, G., 123, 164, 173, 312.
Roland, M., 34, 345.
Rolfe, D. T., 45.
Rolinson, G. N., 24.
Roll-Hansen, J., 170.
Rollin, L., 149.
Roman-Loidolt, 93.
Romano, A. H., 334.
Romanowa, W. P., 252.
Romeo, V. S., 353.
Romero Peralta, J., 364, 365.
Rompietti, A., 132.
Roney, J. N., 188, 263, 279.
Roodenburg, J. W. M., 14.
Rook, G., 228.
Roonwal, M. L., 49, 274, 331.
Rosa, M., 222.
Rosado, J. M., 311.
Rosberg, D. W., 270.
Roščin, I. L., 224.
Rose, F. J., 209.
Roseau, H., 226.
Rosella, 188.
Rosella, E., 55, 92, 99, 228, 339, 375.
Rosén, B., 41.
Rosen, H. R., 88, 96, 100, 272.
Rosenkranz, F., 191.
Rosenstiel, R. G., 68.
Rosenstock, H. A., 344.
Rosický, B., 63, 323.
Rosillo, A., 183.
Rosillo, M. A., 149.
Ross, A. A., 213.
Ross, A. F., 79, 81, 149.
Ross, D. S., 309.
Ross, H., 111, 116, 123.
Ross, W. A., 188, 323.
Rossa, B. B., 370.
Rosseboom, M. G., 165.
Rosser, D., 96.
Rossetti, V., 216.
Rossi, J., 181.
Rossi, L., 188.
Rossiter, R. C., 17.
Rostberg, M. G., 118.
Roth, A. R., 44.
Roth, E. R., 100, 239, 242, 244.
Roth, L. F., 242.
Roth, L. M., 49, 311.
Rothansl, H., 188.
Rothlin, R. E., 52.
Rothstein, A., 17.
Rothstein, F., 59, 60.
Rothwell, W., 309.

Rottmann, G., 102, 366.
Rouart, S., 223.
Roudier, A., 63.
Rousseau, J., 312.
Roussel, C., 224.
Roussel, J. S., 279.
Roussy, L., 55.
Routien, J. B., 334.
Roux, L., 27, 332.
Rowbotham, J. C., 68.
Rowe, V. K., 375.
Rowell, J. B., 20, 94, 95, 96.
Rowell, J. O., 55.
Rowland, H. B., 237.
Roy, M., 33, 90.
Roy, R. S., 288.
Royce, R. D., 33, 344.
Rozhkow, W. S., 294.
Rozendaal, A., 123.
Rozsypal, J., 159.
Ruby, F., 14.
Rudnew, D. F., 246, 252.
Rudnew, E. D., 55.
Rudorf, W., 111.
Rudra, M. N., 137.
Rüdiger, W., 152.
Ruf, H., 373.
Rufin, G., 14.
Ruggieri, G., 216.
Rui, D., 14, 60, 68, 85, 120, 190, 206, 315.
Ruigh, W. L., 333.
Ruiz Castro, A., 228.
Rummell, R. S., 35, 144.
Rummukainen, U., 250.
Rump, L., 188.
Rumpf, P., 365.
Rungs, C., 68, 286.
Rupp, E., 88.
Rupp, J., 353.
Ruppel, R. F., 55, 301.
Rusakowa, A. A., 90, 167.
Rusanow, F. N., 294.
Rusden, P. L., 232, 242.
Rushdi, M. K., 114, 334.
Russchen, 344.
Russel, E. J., 353, 380.
Russel, J., 85.
Russell, E. E., 140.
Russell, E. W., 344.
Russell, M., 344.
Russell, R. C., 88, 97, 102.
Russell, S. G. C., 68.
Russo, F., 156.
Russo, G., 156, 336.
Ruter, G., 60.
Rutschky, C. W., 107.
Rybachek, P. A.,
= Rybatschek, P. A.
Rybatschek, P. A., 246.
Rybin, V. A., 55.
Ryden, N., 71.
Rygg, G. L., 286.
Ryker, T. C., 353.
Ryschkow, W. L., 82, 150.
Ryschkowa, Z. F., 139.
Ryser, G. K., 129.
Rywkin, B. W., 252, 329.

Saalas, U., 6, 250.
Saaltink, G. J., 145.
Sabet, K. A., 238.
Sabinin, S. W., 232.
Sabrosky, C. W., 44, 71.
Sacantanis, K., 183.
Saccas, A. M., 92.
Sachs, H., 39.
Sachtleben, H., 2, 250, 329.
Sackston, W. E., 152, 153, 154, 156.
Sacktor, B., 49.
Safeeulla, K. M., 22, 285.
Saffie D., Z., 191, 199.
Sagromsky, H., 24.
Saha, J. C., 316.
Sailer, R. I., 52, 318.
Sainsbury, G. F., 198.
Saint-Leger, L., 373.
Saint-Quentin, M., 104.
Sakai, H., 53.
Sakaino, S., 377.
Saitô, T., 10.
Sakata, H., 96, 97.
Sakurai, K., 57.
Sala, R., 179, 205.
Salaschek, H., 195.
Salgado, M. L. M., 286.
Salinger, J. P., 188.
Salisbury, G., 353.
Sallans, B. J., 92.
Saller, W., 17.
Salles, C., 296.
Salmon, E. S., 153.
Saloni, K., 14.
Salt, R. W., 46, 49.
Salter, R. M., 336.
Salvaterra, G., 68.
Salvin, S. B., 21.
Samborski, D. J., 91.
Samide, J., 250.
Samish, Z., 214.
Samkalden, L., 379.
Sampford, M. R., 17. 336.
Samson, R. W., 22.
Sanchez Buedo, E., 213.
Sanchez Potes, A., 96.
Sandermann, W., 309.
Sanders, C., 291.
Sanford, G. B., 114, 118.
Sanford, H., 294.
Sankar, D. V. S., 107.
Sankarasubramony, H., 286.
Sanmarchi, A., 14.
Sant'Anna, B., 74.
Santoro, R., 156.
Santos, E., 237, 376.
Sanwal, B. D., 26.
Saptharishi, K., 366.
Sarasola, A. A., 89, 126, 292.
Sarejanni, J. A., 85, 156, 173, 174, 265.
Sarkar, I., 49.
Sarles, R. L., 308.
Sarma, P. S., 107.
Sarrabay, J., 224, 225, 267.
Sartori, G. A., 225.
Sartorius, O., 225.
Sasamoto, K., 304.
Sass, J. E., 113.
Sasser, J. N., 39.
Sastry, B. V. R., 365.
Sato, J., 333.
Sato, T., 365.
Satoh, K., 153.
Sattar, A., 274.
Sattler, G., 249.
Satyanarayana, G., 276.
Satyanarayana, P., 362.
Sauer, H. F. G., 282.
Saunby, R., 318.
Sauthoff, W., 8, 28.
Savage, R. L., 362.
Savary, A., 60, 104, 119, 227, 318.
Savile, D. B. O., 3, 26.
Savitsky, V. F., 129.
Savory, J. G., 308.
Sawada, K., 26, 134.
Sawamura, K., 220.
Sawzdarg, E. E., 211.
Saxena, B. B., 40.
Sayegh, D., 339.
Sayre, C. R., 279.
Sazonov, P. V., 366.
Sbarra, N. H., 376.
Scade, J., 301.
Scamoni, 6.
Scanlon, E. H., 188.
Scaramuzza, L. C., 292, 329.
Scaramuzzi, G., 156, 190, 265, 266.
Scarascia, G. T., 147, 178.
Scarchuk, J., 132.
Scarseth, G. D., 331.
Scasso, J. M., 213.
Schaal, A. S., 113.
Schaal, L. A., 111, 114.
Schad, C., 201, 222.
Schaefer, H., 333.
Schäfer, Th., 256.

Schaerffenberg, B., 57, 60, 250, 323, 324, 355.
Schätz, W., 68.
Schaffner, G., 20.
Schaller, C. W., 93.
Schalyschkina, W. I., 216.
Schanderl, H., 188.
Schaper, P., 111, 323, 378.
Schapiro, D. S., 44.
Schaposchnikow, G. Ch., 55.
Scharmer, J., 188.
Scharow, A. G., 253.
Schaschin, A., 276.
Schaus, R. G., 35.
Schechter, M. S., 362.
Schechtman, A. M., 81, 270.
Schedl, K. E., 60, 63.
Scheffer, F., 17, 359.
Scheffer, R. P., 166, 171.
Scheffer, T., 232.
Scheffer, Th. C., 260.
Scheibe, A., 1.
Scheibe, K., 110, 120.
Scheil, W., 176.
Schellenberg, A., 224, 225, 380.
Schempp, A., 157, 176.
Schenck, C. A., 237.
Schenk, P. J., 12, 29, 40, 68, 168, 250, 253, 263, 270, 273, 355.
Schepp, W., 144.
Scherr, G. H., 21.
Schertiger, A. M., 370.
Schestakow, W. E., 97.
Scheuch, F., 301.
Schewtschenko, M. J., 255.
Schiffel, M., 378.
Schiller, H., 44.
Schilowa-Krassowa, S. A., 256.
Schimitschek, E., 68, 232, 246, 247.
Schimitschek, S., 324.
Schindler, H., 336.
Schindler, U., 250.
Schipstra, K., 12, 17, 102, 111, 336.
Schistra, K., 144.
Schlatter, A. J., 246.
Schlawe, W., 370.
Schlegal, D. E., 150.
Schlehuber, A. M., 87.
Schleicher, 256.
Schlesing, O., 31.
Schleusener, W., 111.
Schljachanow, 60.
Schlocker, A., 196.
Schlösser, L.-A., 129.
Schlumberger, O., 6.
Schmaljko, W. S., 102.
Schmaus, M., 68.
Schmeling, B. v., 16.
Schmid, A. R., 137.
Schmid, I., 333.
Schmid, K., 148.
Schmid, S., 376.
Schmidt, 118, 123.
Schmidt, C. G., 93.
Schmidt, E., 264.
Schmidt, G., 44, 77, 270, 288, 320, 353, 376.
Schmidt, H., 55, 62, 163, 188, 237, 250, 260, 309, 344.
Schmidt, H. J., 8.
Schmidt, H. W., 75, 246, 301, 376.
Schmidt, J., 1.
Schmidt, J. W., 106.
Schmidt, L., 247.
Schmidt, O., 152.
Schmidt, T., 160, 263, 265, 270.
Schmidtkunz, O., 237.
Schmitt, C., 174, 314.
Schmitt, J. B., 296.
Schmitthenner, A. F., 29, 171.
Schmitz, H., 71.
Schmutterer, H., 55, 145, 195, 247, 248, 329.
Schnaider, J., 320.
Schneider, A., 14.
Schneider, C. L., 126.
Schneider, E., 176.
Schneider, F., 60, 71, 125, 188, 329.
Schneider, H., 214, 362.
Schneider, R., 120, 376.
Schneider, S., 127, 149.
Schneider, Y. I., 216.
Schnell, 178.
Schnelle, F., 14, 116.
Schnicker, J. L., 336.
Schober, K., 104, 116, 355, 370.
Schoel, W., 316, 380.
Schölzel, E., 5, 362.
Schönamsgruber, M., 358.
Schönbrunner, J., 110, 138.
Schöne, 195.
Schöne, P., 195.
Schoene, W. J., 68, 323.
Schoenemann, J. A., 158.
Schönfellinger, H., 150.
Schönhar, S., 243.
Schönherr, H., 237.
Schøyen, T. H., 146, 176.
Schofield, E. R., 94.
Scholles, W., 309.
Schopfer, W. H., 334.
Schopp, R., 135.
Schrader, 102, 116, 344.
Schrader, E., 203.
Schrader, G., 358, 362, 366.
Schramm, G., 9, 78, 123.
Schread, J. C., 146, 255, 266, 353.
Schreiber, R., 240.
Schreier, O., 21, 55, 59, 77, 85, 88, 122, 124, 128, 376.
Schreuder, J. E., 376.
Schröder, G., 309.
Schroeder, H. W., 27.
Schroeder, W. T., 135, 321.
Schrödter, H., 14, 156, 162, 209, 313.
Schröppel, H., 119.
Schrötter, v., 250.
Schropp, W., 12.
Schroth, E., 188.
Schtschepotjew, F. L., 222.
Schubin, J. D., 88.
Schuch, K., 260, 304.
Schudel, H. L., 144, 158.
Schuder, D. L., 68.
Schueler, F. W., 360.
Schürmann, R., 374.
Schürnbrand, E., 126.
Schütze, E., 180.
Schütze, P., 366.
Schuldt, P. H., 240.
Schultz, E. S., 116.
Schultze, W., 12.
Schulz, F., 178.
Schulz, G., 260.
Schulz, J. T., 109.
Schulz, P., 267, 353.
Schulze, 298.
Schulze, W., 298.
Schumacher, 102.
Schumacher, G., 316.
Schumilenko, E. P., 102.
Schuppe, E., 207.
Schuppon, R., 358.
Schussler, 376.
Schuster, L. M., 128.
Schuster, M. L., 175.
Schutz, K., 370.
Schvester, D., 63, 181.
Schwalb, H. W., 150.
Schwanz, H. L., 88.
Schwartz, D., 90, 147, 305.
Schwartz, H., 307.
Schwarz, 297.
Schwarz, G., 188, 370.
Schweizer, J., 283, 289.
Schwenke, W., 253.
Schwerd, W., 376.
Schwerdt, 35.
Schwerdt, C. E., 80.
Schwerdtfeger, F., 60.
Schwingenschuss, L., 68.
Schwinghamer, E. A., 152.
Sciaroni, R. H., 40, 261.
Scognamiglio, A., 195.
Scott, C. E., 208, 220, 339.
Scott, D. H., 208, 212, 225.
Scott, L. E., 225, 285.
Scott, W. J., 304.

Scragg, E. B., 90.
Scriven, W. A., 111.
Scudder jr. G. K., 288.
Scurti, F., 319.
Scurti, J., 268 347.
Seale, C. C., 37.
Sealine, E. O., 35.
Searls, E. M., 353.
Sears, H. M., 237.
Sebastian, 15.
Sebek, O. K., 28.
Sebelin, C., 311.
Sechet, 100.
Seçkin, R., 206.
Secrest, H. C., 51.
Sedlag, U., 129.
Sedziak, H. P., 260.
Seeley, J. G., 269.
Seely, C. I., 315.
Seemann, J., 116.
Segall, R., 159.
Segalla, A. L., 291.
Segrétain, G., 79.
Seidel, 378.
Seidel, K., 301.
Seidel, W. J., 237.
Seinhorst, J. W., 40, 105, 158.
Sekera, F., 10.
Sekiguchi, T., 193, 324.
Selander, R. B., 58.
Selenskij, M. A., 14.
Seliskar, C., 190.
Seliskar, C. E., 238.
Seliwanowa, S. N., 107, 146.
Selli, M., 334.
Sellke, K., 120, 301, 336, 362.
Selonke, P., 276.
Semeniuk, G., 92.
Sempio, C., 274, 378.
Sen, A. B., 339.
Sen, A. C., 353.
Senaratne, J. E., 37.
Sengbusch, R. v., 207.
Senkevich, A. A., 14.
Sennels, 272.
Senseney, C. A., 80.
Seppälä, E., 308.
Serdjukowa, G. W., 42.
Sergeeva, K. D., 209.
Serr, E. F., 222.
Serrano, P., 286.
Servadei, A., 182.
Servazzi, O., 21, 271, 312.
Servi, G., 353.
Serzhenko, S. S., = Serženko, S. S.
Serženko, S. S., 224, 226.
Seshadri, T. R., 365.
Setaire, A., 336.
Sevastopulo, D. G., 68.
Severin, H. C., 49, 309.
Sewastjanow, W. D., 376.
Shackleton, P., 246.
Shadbolt, C. A., 167.
Shafer, W. B., 339.
Shah, C. C., 148.
Shah, R. C., 349.
Shands, H. L., 96, 98.
Shands, W. A., 117, 118, 124.
Shanks, G. L., 370.
Shanor, L., 324.
Shapiro, D. S., = Schapiro, D. S.
Shapiro, I. D., 136.
Shaposhnikov, G. Kh.,
= Schaposchnikow, G. Ch.
Sharma, C., 288.
Sharma, K., 216.
Sharma, S. L., 292.
Sharma, O. P., 152.
Sharov, A. G., = Scharow, A. G.
Sharp, D. G., 80, 147.
Sharp, E. L., 26, 97.
Sharp, S. S., 358.
Sharpless, R. V., 296, 364, 365.
Sharvelle, E. G., 191, 304, 339.
Shashin, A., = Schaschin, A.
Shaw, A. F., 344.
Shaw, C. G., 20, 22, 25, 27, 28, 235.
Shaw, D. E., 104, 142.
Shaw, W. C., 344, 370.
Shay, J. R., 197, 201, 202, 203.
Shchepot'ev, F. L.,
= Schtschepotjew, F. L.
Shear, C. B., 15.
Shebeski, L. H., 97.
Sheffield, F. M. L., 294.
Shelden, F. F., 219.
Shelford, V. E., 51.
Shellenberger, J. A., 90, 301.
Shelochowzew, A. N., 74.
Shenefelt, R. D., 17, 81, 146, 235, 243, 353, 376.
Shepard, C. E., 195, 196.
Shepard, H. H., 336, 376.
Shepard, P. H., 228.
Shepard, W. C., 257.
Shepardson, E. S., 197.
Sheperd, R. F., 66, 252.
Shephard, J. B., 330.
Shepherd, C. J., 149.
Sher, S. A., 39.
Sherf, A., 97.
Sherf, A. F., 131.
Sherman, M., 172, 285.
Sherman, R. W., 380.
Sherman, S., 334.
Sherwin, H. S., 21, 133, 134.
Sherwood, R. T., 85.
Shestakov, V. E.,
= Schestakow, W. E.
Shevchenko, M. I.,
= Schewtschenko, M. J.
Shewell-Cooper, W. E., 188, 272, 353.
Shibata, B., 55.
Shibukawa, J., 197.
Shibukawa, K., 240.
Shidara, I., 331.
Shields, I. J., 243.
Shigematsu, K., 100.
Shiller, H. O. B., 144.
Shimada, N., 99.
Shioda, T., 261.
Shipton, M. E., 8.
Shirahama, K., 173.
Shiraki, T., 71.
Shishyama, J., 200.
Shliakhanov, = Schljachanow.
Shmal'ko, V. S.,
= Schmaljko, W. S.
Shoji, M., 89.
Shorrock, R. W., 1.
Shotwell, R. L., 49.
Shteinberg, D. M.,
= Steinberg, D. M.
Shubin, I. D.,
= Schubin, J. D.
Shulov, A., 49.
Shumilenko, E. P.,
= Schumilenko, E. P.
Shurowenkow, B. G., 97.
Shurtleff, M. C., 158, 194, 304.
Shutak, V. G., 304.
Siang, W. N., 86.
Sibilia, C., 85, 188, 226, 234.
Sibold, N. V., 68, 323.
Sidor, Ć., 57, 60.
Siebeneick, H., 112.
Siebert, A., 234.
Siedek, H., 358, 375.
Siegel, A., 80, 149, 172.
Siegel, B. M., 79.
Siegler, E. H., 60, 376.
Siegmund, 256.
Sierra, R. A. M., 292.
Sijpesteijn, A. K., 339.
Silber, A., 93.
Silberschmidt, K. M., 81.
Silk, E. E., 36.
Sill jr., W. H., 80, 109, 141, 166.
Siller, L., 282.
Silva, M. V. E., 100.
Silverborg, S. B., 283.
Silversides, W. H., 152.
Silvestri, F., 223.
Siminoff, P., 332.
Simkover, H. G., 235, 301.
Simmonds, P. M., 92.
Simmons, E. G., 24.
Simmons, J. A., 143, 340.
Simmons, P., 303.
Simochkina, M.,
= Simotschkina, M.

Simon, E. W., 17, 366.
Simon, L., 90.
Simonart, P., 283.
Simone, J., 225.
Simonis, W., 313.
Simonow, N. S., 253.
Simons, H. M., 322, 353.
Simons jr., H. M., 285.
Simons, M. D., 93, 97.
Simotschkina, M., 90.
Simpson, C. F., 93.
Simpson, E. P., 364.
Simpson, G. W., 124.
Simskij, A. M., 237.
Sinclair, A. T., 359.
Sinclair, W. B., 218, 221, 320, 362.
Singer, G., 188.
Singer, R., 26.
Singh, B., 288, 293.
Singh, D., 98.
Singh, H. N., 31.
Singh, K., 275.
Singh, K. K., 305.
Singh, N., 150.
Singh, S. R., 286.
Sinreich, A., 68, 246, 253, 353.
Sipe, H., 237.
Sirmai, I., 79.
Sirotti, G., 128.
Sirsi, M., 334.
Sisler, H. D., 21.
Şişli, N., 12.
Sissingh, G., 31.
Sites, J. W., 219.
Sivori, E. M., 106.
s'Jacob, J. C., 314.
Skala, H., 68.
Skalamera, J. J., 364.
Skarbilowitsch, T. S., 125.
Skerman, K. D., 37.
Skerrett, E. J., 353, 362.
Skiles, B. L., 366.
Skiles, R. L., 159, 212.
Skinner, F. A., 319.
Skolko, A. J., 134.
Skogsborg, J., 68.
Skoog, F., 8.
Skoog, H. A., 134.
Skoropad, W. P., 97.
Skou, W., 269.
Skuhravý, V., 59.
Slaats, M., 37.
Slack, D. A., 196.
Slade, G. H., 270.
Slagg, C. M., 124.
Slagle, C. W., 82.
Šlander, J., 247.
Slate, G. L., 208, 269.
Slater, J. A., 52.
Slavnić, Ž., 31.
Sleesman, J. P., 111, 157, 158, 166.
Sleeth, B., 218.
Slife, F. W., 104, 344.
Sloan, G. D., 376.
Sloan, M. J., 159.
Sloan, R. H., 276.
Slykhuis, J. T., 109, 139, 141.
Small, T., 168.
Smallman, B. N., 258, 302.
Smarods, J., 26.
Smart, H. F., 298.
Smart, M. E., 309.
Smeby, R. R., 334.
Smeding, P., 201.
Smeltzer, D. G., 97.
Smida, M., 232.
Smilie, J. L., 275.
Smirnoff, W., 55, 286.
Smirnoff, W. A., 218, 219, 329.
Smirnov, B. M., 35.
Smirnova, A. A., 337.
Smit, B., 49, 55, 353.
Smith, A. E., 366.
Smith, A. L., 276.
Smith, C. C., 254.
Smith, C. E., 279.
Smith, C. F., 205, 267.
Smith, D. D., 10.
Smith, D. S., 49.
Smith, E. A., 292.
Smith, E. H., 188, 195.
Smith, F. F., 81, 158, 268, 272, 353, 376.
Smith, F. G., 26, 28, 97.
Smith, G., 339.
Smith, G. A., 55, 329.
Smith, H. A., 365.
Smith, H. C., 209, 322.
Smith, H. E., 212.
Smith, H. H., 237.
Smith, H. L., 370.
Smith, H. P., 370.
Smith, H. S., 6, 219.
Smith, H. W., 40.
Smith, I. C., 72.
Smith, J. A., 148.
Smith, J. D., 142.
Smith jr., J. E., 342.
Smith, J. M., 237, 331.
Smith, J. N., 49.
Smith, K. M., 44, 78, 79, 146, 158, 263, 323.
Smith, L., 89.
Smith, L. P., 15.
Smith, M. A., 174, 192.
Smith, M. K., 309.
Smith, M. S., 347.
Smith, N., 332.
Smith, N. F., 243, 247.
Smith, N. G., 344.
Smith, N. M., 22, 292.
Smith, N. R., 19, 208.
Smith, O., 111, 112, 117, 303.
Smith, O. J., 62, 329.
Smith, P. F., 214, 288.
Smith, P. S., 44.
Smith, R. C., 44.
Smith, R. J., 85, 305, 339.
Smith, R. O. A., 329.
Smith, R. W., 49.
Smith, S. G., 58.
Smith, W. A., 118, 146.
Smith, W. G., 125.
Smith, W. H., 157, 178, 237, 305.
Smith jr., W. L., 192, 298, 305.
Smith, W. P. C., 19, 116, 216, 225.
Smith, W. W., 77.
Smits, C., 79.
Smolák, J., 319.
Smoot, J. J., 173.
Smykow, W. K., 199.
Snapp, O. I., 191, 195.
Snegowski, J. F., 370.
Snijders, J. H., 26.
Snow, S. J., 140.
Snyder, E., 228.
Snyder, F. M., 71.
Snyder, G. R., 347.
Snyder, H. D., 27.
Snyder, T. E., 50, 51, 260.
Snyder, W. C., 20, 24, 167, 168.
Soeda, M., 332.
Söding, H., 1.
Sökmen, Y., 97, 166, 188.
Sömermaa, K., 300.
Soenen, F. A., 195.
Sørensen, A., 320.
Sörgel, G., 134.
Sörgel, P., 203.
Soesman, J. G., 283.
Sokal, R. R., 55.
Sokoloff, V. P., 331.
Sokolow, A. M., 205.
Sokolow, F., 344.
Sokolow, N. S., 344.
Sokolowa, O. W., 314.
Sokolowa, R. A., 205.
Sokolowa, W. E., 28.
Solaroli, V., 181, 205.
Solavaggione, L., 370.
Solignat, G., 221, 222.
Solinas, M. I., 120.
Sollers, H., 6.
Solly, N. R., 282.
Solomon, S., 29, 346.
Solowjew, A., 97.
Solowjew, K. P., 232.
Solowjewa, M. A., 178.
Soma, M., 197.
Sonderup, H. P. S., 56.
Sonneveld, F., 37.
Sonoda, Y., 332.
Sorenson, C. J., 140, 187.

Sorenson, jr., J. W., 300.
Sorge, P., 207.
Sorsa, B., 309.
Sorteberg, A., 167.
Sotokawa, T., 197.
Soulie, J., 353.
Southam, Ch. M., 309.
Southey, J. F., 266.
Southwick, F. W., 197, 199.
Spaić, I., 60, 253.
Spannhof, L., 75.
Sparks, H., 219.
Sparks, W. C., 112.
Sparr, B. I., 362.
Sparrow, F. K., 22.
Spatz, L. R., 138.
Spaulding, A. E., 237.
Spaulding, P., 242.
Spear, P. J., 353, 354, 362.
Specht, A. W., 38, 90, 142, 193, 214.
Spehar, V., 154.
Spencer, D. M., 173.
Spencer, E. L., 40.
Spencer, G. J., 44.
Spencer, H., 218, 219.
Spencer, H. C., 375.
Spencer, J. L., 132.
Spencer, S. J., 266.
Sperger, R., 188, 380.
Speroni, G., 362.
Speroni, H. A., 216.
Sperring, A. H., 69.
Sperry, O. E., 33.
Speyer, E. R., 42.
Speyer, W., 62, 131, 378.
Spieß, K., 197.
Spilker, O., 244.
Spiller, D., 219, 260, 309.
Spina, P., 156.
Sprague, M. A., 138, 141.
Sprague, R., 88, 100, 141, 201, 203.
Sprangers, A. A. C., 243.
Sprau, F., 105, 119, 124.
Spreng, H., 60.
Springhetti, A., 50.
Sproßmann, G., 371.
Spruyt, F. J., 119.
Spuris, Z., 52.
Spurr, A. R., 160.
Srinivasan, K. V., 26, 134, 294.
Srinivasan, U. C., 88.
Srivastava, A. S., 55.
Srivastava, D. N., 27.
Srivastava, R. K., 273, 294.
Srivastava, T. N., 245.
Stabl, Ch., 2.
Stacey, W. A., 309.
Stadtherr, R. J., 208.
Stäger, R., 56.
Staehelin, M., 1, 223.
Staffeldt, E. E., 92.
Stage, H. H., 362.
Stahl, M., 114, 157, 188, 226.
Stahler, L. M., 89, 341, 344.
Stahmann, M. A., 27, 80, 357.
Stairs, H. F., 31.
Stakman, E. C., 94, 96.
Stalder, L., 8.
Staley, J. M., 242, 244.
Stam, J. C., 146.
Stambaugh, W. J., 240.
Stančić, J., 60.
Standard, L. J., 51.
Standen, J. H., 85.
Stanford, E. H., 141.
Stangl, 181.
Staniforth, D. W., 90, 103.
Staniland, L. N., 172.
Stanković, A., 337.
Stankovič, D., 18, 176, 184.
Stanley, J. M., 349.
Stanley, W. W., 136, 197, 279, 285, 354.
Stannard, jr., L. J., 281.
Stanton, H. S., 371.
Stanton, T. R., 90, 93, 142.
Stanton, W. R., 112, 319.
Stapel, C., 12, 97, 354.
Stapley, J. H., 188, 203.
Stapp, C., 8, 19, 124, 347.
Starcke, A., 376.
Starfinger, K., 260.
Stark, F. C., 134.
Stark, R. W., 251, 251, 253.
Starkenberg, B., 259, 309.
Starling, T. M., 99.
Starnes, O., 102, 136, 157, 158, 207, 321, 354.
Starr, D. F., 109, 354.
Starr, G. H., 134.
Starr, M. P., 19, 209, 264.
Starygina, L. P., 19.
Stauder, F., 249.
Staudt, G., 208.
Stearns, C. R., 213.
Stearns jr., C. R., 213, 371.
Stearns, L. A., 188.
Steavenson, H. S., 366.
Steckhan, H., 15.
Steel, W. O., 49, 296, 329.
Steenland, A. P., 176, 192.
Steensma, L. W., 351.
Steer, H. B., 51, 309.
Steere, R. L., 79, 80, 150.
Stefanović, C., 69.
Steffen, 297.
Stegwee, D., 49.
Stehle, H., 288.
Stein, G. H. W., 77.
Stein, L. H., 281.
Steinbacher, J., 75.
Steinberg, D. M., 250.
Steinberg, R. A., 146.
Steindl, D. R. L., 22.
Steineck, O., 112. 298.
Steiner, 205.
Steiner, G., 40.
Steiner, L. F., 183.
Steingass, K. P., 256.
Steinhaus, E. A., 44, 69, 109, 228, 323, 324.
Steiniger, F., 75, 77, 374, 376.
Stellwaag, 348.
Stellwaag, F., 224, 226, 228, 337.
Stenberg, J. N., 344.
Stepanow, K. M., 216.
Stepanow, W. N., 269.
Stephan, F., 88, 120, 180, 181, 182, 189.
Stephen, R. C., 146.
Stephens, J. C., 37.
Stephens, J. M., 207, 324.
Stephens, M. N., 77.
Sterling, C., 228.
Sterling, G. R., 380.
Stern, A. M., 303.
Sternburg, J., 49, 362.
Sterten, A. K., 15, 120, 143.
Stessel, G. J., 242, 333, 334.
Stetten-Aystetten, K. v., 344.
Steubing, L., 15, 313.
Steudel, 129.
Steudel, W., 129, 130, 163.
Stevens, N. E., 1.
Stevens, O. A., 29.
Stevens, R. B., 1.
Stevens, R. F., 156, 188.
Stevenson, E. E., 136.
Stevenson, F. J., 111, 114, 116.
Stevenson, G., 110.
Stevenson, J. A., 5.
Stevenson, W. A., 279.
Stewart, D., 126.
Stewart, D. M., 242.
Stewart, G. H., 305.
Stewart, G. I., 232.
Stewart, H., 237.
Stewart, I., 12, 214.
Stewart, J. A., 344.
Stewart, R. N., 265.
Stewart, W. N., 370.
Stewart, W. S., 37, 213, 214, 305.
Steyaert, R. L., 220, 288.
St. George, R. A., 51.
Stiehm, H., 260.
Stieve, H., 77.
Stifel, W., 77.
Stiles, C. F., 136, 158, 279, 372.
Stimson jr., T. E., 354.
Stirnberg, 178.
Stirtz, T., 250.
Stitt, L. L., 124, 212.

Stiven, G., 334.
Stivers, J. O., 63.
Stobwasser, H., 120, 320.
Stockdale, A., 85.
Stocker, M., 42.
Stoddard, E. M., 133, 160, 169, 190, 198, 263.
Stoddart, L. A., 32.
Stoeckeler, J. H., 245, 247.
Stöckli, A., 40.
Stöhr, W., 75, 344.
Stofberg, F., 219.
Stojanović, D., 203.
Stokes, G., 114.
Stokes, G. W., 110.
Stokes, W. M., 38, 368.
Stoldt, W., 376.
Stoll, K., 134, 162, 196, 305.
Stoller, B. B., 312.
Stolze, 116, 121.
Stolze, K. V., 75, 102, 125, 130, 163, 355.
Stone jr., E. L., 234.
Stone, L. E. W., 172.
Stoner, H. B., 376.
Stoner, W. N., 100, 109, 166, 229, 285, 294, 370, 371.
Storace, L., 69.
Storch, K., 256, 260.
Storer, T. I., 355.
Storey, I. F., 24, 160, 202, 312.
Storey, W. B., 220.
Story, C. G., 288.
Stout, G. L., 196, 220.
Stout, M., 125.
Stoutemas, E., 267, 272.
Stover, R. H., 146, 288.
Stoy, O., 176.
Strachow, T. D., 97.
Straneo, S. L., 56.
Strasburger, L. V., 303.
Straszewska, S., 260.
Straszewska, Z., 7, 19.
Strauß, E., 177.
Strauß, W., 111.
Strel'tsov, I. I., = Strelzow, I. I.
Strelzow, I. I., 253.
Streutgers, E., 124.
Strickland, A. G., 305.
Strickland, A. H., 44.
Stritt, W., 55, 74.
Strobel, W., 378.
Strømme, E., 169.
Strohecker, H. F., 49.
Strojny, W., 60, 329.
Strolle, E. O., 364.
Strong, F. C., 239, 243.
Strong, F. M., 334.
Strong, M. C., 169.
Stroud, S. W., 347.
Stroyan, H. L. G., 55.
Strudel, 130.
Strukan, D., 181.
Strutz, I., 19, 95, 333.
Stryckers, J., 144, 347.
Strzemienski, K., 17.
Stuart, N. W., 268, 269.
Stubbs, J., 171.
Stubbs, L. L., 166, 167, 168, 173, 220, 273.
Stube, T., 241.
Stübner, K., 362.
Stummeyer, H., 347.
Stumper, R., 74.
Stumpp, K., 309.
Sturdy, M., 303.
Sturgeon, J. H., 302, 380.
Sturgess, O. W., 167.
Sturrock, D., 214.
Stute, K., 376.
Suárez de Castro, F., 10, 283.
Subba Rao, N. V., 100.
Subramanian, C. V., 21, 28, 276.
Such, S., 237.
Suchow, K. S., 79, 80, 124, 150, 172, 173.
Sümer, S., 57.
Suenaga, H., 55.
Sufficool, J. R., 212, 215.
Suggitt, J. W., 344, 371.
Sugimura, J., 224.
Sugino, T., 106.
Sugiyama, T., 225.
Suit, R. F., 216.
Sukatschew, W. N., 232.
Sukhov, K. S., = Suchow, K. S.
Sullivan, R. L., 327.
Sullivan, T. J., 344.
Sullivan, W. N., 354, 360, 371.
Sulochana, C. B., 10, 274, 276.
Šumakowa, A. A., 216.
Sumiki, Y., 367.
Summer, W., 296.
Summers, F. M., 195, 222.
Summers, T. E., 92.
Sun, Jung-Yi Tung, 362.
Sun, Yun-Pei, 362.
Sundaram, N. V., 21, 26, 276, 286, 294, 312.
Sundararaj, D. D., 286.
Sunday, M. B., 303.
Sundelin, G., 344.
Sunderland, N., 29.
Suolathi, O., 260.
Suryanarayana, D., 294.
Sussex, I. M., 111.
Sussman, A. S., 324.
Sutić, D., 115.
Sutton, C. D., 237.
Sutton, D. D., 264.
Sutton, W. S., 171.
Suzuki, H., 100.
Suzuki, K., 224.
Suzuki, N., 100, 285, 378.
Suzuki, S., 15.
Suzuki, T., 369.
Svanberg, O., 12.
Svihla, A., 77.
Svirsky, A., 193.
Švolkovskis, A., 253.
Swaebly, M. A., 302.
Swain, R. B., 86, 283, 316.
Swan, D. C., 354.
Swank, G., 28.
Swank jr., G., 160.
Swanson, C. L. W., 10.
Swanson, C. R., 370.
Swanson, H., 344.
Swanson, H. E., 241.
Swarbrick, T., 366.
Swartwout, H. G., 176, 190, 198, 207, 224.
Sweet, R. D., 135, 158, 366.
Sweetman, H. L., 354, 362.
Sweetser, G. A., 12.
Swenson, K. G., 135, 141, 321.
Swensson, Å., 376.
Swift, H. L., 178.
Swift, J. E., 105, 348.
Swinbank, J. C., 302.
Swirski, E., 182, 195.
Switzer, C. M., 34.
Sy, M., 240, 296.
Sylvén, E., 71, 154, 205, 263, 319.
Sylvester, E. S., 130.
Sylwester, E. P., 103, 137, 144.
Symes, H., 69.
Syndikus, W., 178.
Synge, P. M., 2.
Syngrassides, A. J., 183.
Szirmai, J., 150.
Szkolnik, M., 8.
Szladits, I., 322.
Szmidt, A., 69.
Szumkowski, W., 329.
Szybalski, W., 19.
Szymkowicz, R. T., 76.
Szymona, M., 334.

Taboada, V. L. E., 216.
Tadić, M. D., 206.
Tadić, R. M., 85.
Tagami, Y., 284, 285.
Tajima, Y. A., 360.
Takada, 377.
Takahashi, H., 334.
Takahashi, M., 22.
Takahashi, R., 55.
Takahashi, S., 334.

Takahashi, T., 150, 377.
Takahashi, W. N., 80, 150, 173.
Takahashi, Y., 98.
Takaki, H., 179.
Takano, T., 361.
Takaoka, T., 90.
Takatori, F. H., 112.
Takedi, K., 367.
Takenaga, T., 369.
Takeshita, R. M., 174.
Takeuchi, T., 334.
Takiguchi, M., 69.
Takijima, Y., 132.
Takimoto, K., 166.
Talbot, P. H. B., 21.
Talboys, P. W., 28.
Talley, P. J., 276.
Tamari, K., 28.
Tamura, I., 136, 228.
Tamura, M., 149, 166.
Tamura, S., 90.
Tamura, T., 100.
Tanaami, T., 331.
Tanabe, H., 369.
Tanada, T., 371.
Tanaka, I., 91, 97.
Tanaka, K., 354.
Tanaka, M., 219.
Tanaka, S., 92, 100, 201.
Tanco Guerra, C., 288.
Tandon, R. N., 114.
Tanikawa, W., 90.
Tanner, J. C., 127.
Tapia, E., 219.
Tapia, E. A., 71, 107, 248.
Tapke, V. F., 97.
Tapley, R. G., 283.
Tarasenko, M. P., 199.
Tarasiuk, A. S., 371.
Tarjan, A. C., 40, 160, 272, 294.
Tarr, S. A. J., 277.
Tasugi, H., 88.
Tatebe, T., 159.
Tauber, O. E., 300.
Taubert, G., 176, 198.
Taubitz, 60.
Taubitz, A., 130, 136, 189.
Tavernier, J., 198.
Taya, O., 333.
Taylor, A. L., 38, 39, 40, 172.
Taylor, E. A., 165.
Taylor, E. M., 117.
Taylor, F., 107.
Taylor, G. G., 184, 205, 207, 372.
Taylor, G. P., 43, 56.
Taylor, G. S., 109.
Taylor, H. S., 192.
Taylor, J., 165, 201.
Taylor, J. C., 166.
Taylor, J. J., 244.
Taylor, L. F., 44.
Taylor, L. R., 136.
Taylor, R. E., 157.
Taylor, R. H., 226.
Tazaki, T., 334.
Technau, G., 260, 309.
Tedin, O., 12, 88, 97, 111.
Teel jr., G. P., 357.
Teichmann, 102.
Telander, G., 376.
Telford, H. S., 140, 207.
Telliez, J., 191.
Tempany, H., 10, 319.
Tempel, W., 116.
Templeman, W. G., 144, 344.
Templeton, L., 244.
Templin, E., 253, 256.
Ten Hagen, M., 332.
Tenhet, J. N., 149, 305.
Ten Houten, J. G., 6, 354.
Tenney, W. R., 139.
Teoman, N., 46, 337, 349.
Teoman. S., 16, 346.
Teramoto, T., 258.
Tereshchenko, F. K.,
= Tereschtschenko, F. K.
Tereschtschenko, F. K., 144.
Terman, G. L., 88, 91, 111, 112, 356.
Termohlen, G. P., 203.
Terrell, T. T., 371.
Terrier, Ch., 24, 25, 91, 96.
Terry, C. W., 370.
Tesar, Z., 60.
Tešić, Ž., 19, 239.
Teske, A. H., 189.
Tessi, J. L., 91, 92.
Tetefort, J., 49, 371.
Tewari, M. C., 260.
Thacker, D. G., 232.
Thakur, C., 33.
Thalenhorst, W., 44, 247, 253, 255, 371.
Thaler, I., 264.
Thames, W. H., 107.
Thames jr., W. H., 107, 354.
Thanos, A., 334,
Thate, R., 225, 371.
Theden, G., 260, 309.
Theimer, K., 190.
Theis, T., 143.
Thenard, J., 152, 321.
Theodorides, J., 56, 61, 328.
Thiel, H., 26.
Thiel, J., 21.
Thielecke, H., 362.
Thielicke, W., 240.
Thielmann, K., 60.
Thiem, E., 120, 121.
Thiem, H., 181, 189, 257, 376.
Thienes, C. H., 376.
Thiesmeyer, L. R., 309.
Thijn, G. A., 114.
Thiollière, J., 357.
Thirumalachar, M. J., 22, 26, 143, 312.
Thoenessen, C., 367.
Thom, Ch., 21.
Thomas, A. M., 371.
Thomas, B., 302.
Thomas, C. A., 175.
Thomas, C. R., 74.
Thomas, E. K., 32.
Thomas, G. W., 207, 224.
Thomas, H. E., 28, 196.
Thomas, H. L., 137.
Thomas, H. R., 134.
Thomas, I., 121.
Thomas, M., 314.
Thomas, P. H., 161.
Thomas, R. O., 275.
Thomas, St., 19.
Thomas, V. E., 51.
Thomas, W. D., 27, 116, 159, 264, 265.
Thomas jr. W. D., 201, 265.
Thomas, W. D. E., 357.
Thomas, W. O., 169.
Thompson, A. H., 176, 199.
Thompson, H. C., 111.
Thompson, H. R., 286, 307.
Thompson, H. V., 184, 189.
Thompson, J. A., 69.
Thompson, M. M., 31.
Thompson, R. K., 219.
Thompson, W. L., 213, 218, 219.
Thompson, W. R., 144.
Thomson, A. G., 378.
Thomson, R., 148.
Thorn, W. A., 23.
Thornberry, H. H., 81, 264.
Thorne, G., 128, 154.
Thornton, B., 344.
Thornton, B. J., 31, 34, 344, 345.
Thornton, M. K., 33.
Thornton, N. C., 288.
Thorold, C. A., 282.
Thran, 116.
Thran, P., 116.
Threlfall, C. J., 376.
Thullbery, H. A., 213, 216.
Thunell, B., 309.
Thung, T. H., 79, 212.
Thurn-Valsassina, G. G., 257.
Thurston, H. D., 22.
Tiagi, B., 29.
Tiagnienko, E., 337.
Tibbetts, T., 69, 106.
Tibbitts, T. W., 348.
Ticheler, J., 145.
Ticknor, R. L., 8.
Tidman, D. A., 144.
Tidrick, R. E., 207.

Tiedjens, V. A., 322.
Tiel, E., 18, 176.
Tielecke, H., 128, 362, 376.
Tiemann, H. D., 260.
Tiffany, L. H., 20, 23, 311.
Tihowidowa, W. K., 226.
Tilemans, E., 337, 376.
Tilemans, E. M., 367.
Tilemans, M., 337.
Tilford, P. E., 232.
Tillinghast, J., 238.
Timmons, F. L., 35.
Timofeewa-Tjulina, M. T., 91.
Timonin, M. I., 12.
Tims, E. C., 160.
Tinbergen, N., 1.
Tindale, G. B., 305.
Tindall, C., 276, 345.
Tinker, M. E., 247.
Tinoco Corona, L., 166.
Tinsley, T. W., 121.
Tipler, R. V., 378.
Tipton, B., 279.
Tiraboschi, G., 232.
Tirelli, M., 147.
Tisdale, E. W., 32.
Tisdale, W. B., 85.
Tixier, P., 283.
Tjallingii, F., 166, 171.
Tjoa Tjien Mo, 107, 285, 322.
Tocaven, S., 357.
Tocchetto, A., 88.
Tochinai, Y., 100, 134.
Todd, E. H., 104, 105.
Todd, F. E., 376.
Todd, H. S., 165.
Todorović, M., 19, 239.
Tögel, 189, 331.
Törnblom, O., 68.
Tofiño Orejuela, T. E., 55, 219.
Togashi, K., 21, 28.
Togliani, F., 28, 100, 166, 191, 201, 357.
Tokunaga, M., 74, 195.
Tolner, J., 10.
Tomanek, J., 238.
Tomaselli, R., 37, 104, 144, 345.
Tomić, D., 250.
Tominaga, Y., 149.
Tominić, A., 118.
Tomita, G., 108.
Tomiyama, K., 21, 97.
Tomizawa., C., 345.
Tomkins, R. G., 201.
Tomlinson, J. A., 268, 270.
Tomlinson, J. R., 364.
Tomlinson, W. E., 247.
Tompkins, J. P., 208.
Toole, E. R., 242, 243.
Topalović, G., 379.
Topi, M., 228.
Topper, B. F., 288.
Torbet, E. R., 238.
Torgeson, D. C., 267.
Torikata, H., 192, 201, 314.
Tornow, E., 302, 376.
Toro, R. A., 22.
Torpe, N. V., 93.
Torrie, J. H., 268.
Tortorelli, L. A., 238.
Toudoire, 376.
Tousey, R. G., 189.
Towell, W. E., 238.
Townsend, G. R., 339.
Townsend, J. F., 204.
Toxopeus, H. J., 111, 119, 365.
Toyoda, S., 100.
Tozzetti, G. T., 92.
Trappmann, W., 77, 176, 224, 302, 337, 377.
Traversi, B. A., 130, 192, 263, 292.
Trawick, J. L., 300.
Treggi, G., 19.
Tregubow, G. A., 232.
Trehan, K. A., 77.
Tremblay, T., 341.
Trentini, R., 203.
Trevett, M. F., 210, 345.
Treutler, 69.
Tribbett, V. A., 238.
Trivedi, B. S., 294.
Trocmé, S., 199.
Troelsen-Johansen, G., 84.
Troll, H.-J., 141.
Trottmann, M. M., 265.
Trouillon, L.-L., 228.
Trouvelot, B., 323.
Trowell, G. F., 199.
True, R. P., 234, 242, 243, 244, 269.
Trümper, 8.
Truhaut, R., 16.
Truog, E., 127, 366.
Tryon, E. H., 234, 269.
Tsai, To-Kun, 290, 292.
Tschekalin, I. J., 330.
Tschenzowa, N. I., 77, 257.
Tscheremisin, W., 209.
Tscherepanow, A. I., 250.
Tschesalin, G. A., 29.
Tschesche, R., 334, 337.
Tschumi, E., 144.
Tsiang, C. T., 113.
Tsubura, E., 334.
Tsujita, M., 74, 195, 279.
Tsvetkov, M. I., 91.
Tsymbal, M. M., 102.
Tuatay, N., 63, 206.
Tucker, B. D. A., 184.
Türcke, 77.
Tuft, T. O., 372.
Tufts, W. P., 201.
Tuin, W., 337.
Tuite, J., 302.
Tukey, H. B., 8.
Tukey, L. D., 371.
Tullis, E. C., 26.
Tumanow, I. I., 214.
Tumminello, M., 149.
Tunblad, B., 42, 49, 57, 176, 184, 189, 205, 354.
Tunis, W. D., 190, 198.
Tuplin, I. L., 31.
Turcot, C., 147.
Turel, F., 28.
Turian, G., 62.
Turica, A., 189.
Turnbull, J., 203.
Turner, H. F., 377.
Turner, K. B., 253.
Turner, S. W., 380.
Turner-Graff, R., 319.
Turnipseed, G. F., 205.
Turquois, J., 168, 207.
Turrell, F. M., 214.
Turzan, C. L., 206.
Tuttle, D. M., 63.
Twerskoj, D. L., 139.
Twight, E. H., 228.
Twombly, A. R., 35.
Twomey, J. A., 126, 195.
Tyler, G. J., 29.
Tyler, L. J., 93, 94.
Tynan, J. A., 37, 347.
Tyner, L. E., 97.

Udine, E. J., 4.
Ueckermann, E., 77.
Ueda, J., 364.
Ueda, K., 88, 377.
Uehara, H., 107.
Uehara, M., 214.
Ueki, K., 136.
Uemura, S., 239.
Ueno, N., 153.
Ufer, M., 154.
Uhl, D. P., 347.
Uhl, H., 367.
Uhland, R. E., 11.
Ui, T., 100.
Ujvárosi, M., 31, 104.
Ulbrich, M., 17.
Ullstrup, A. J., 92, 100, 101.
Ullyett, G. C., 329.
Ulrich, A., 125.
Ulrich, H., 302.
Umezawa, H., 333, 334.
Umhauer, H., 371.
Unat, N., 182.

Underhill, G. W., 189.
Underwood, N. B., 255.
Unger, K., 313.
Unrau, J., 91.
Unterstenhöfer, G., 255.
Uozumi, T., 166.
Uppal, B. N., 288.
Upson, K., 333.
Urbahn, E., 69.
Urban, H., 298.
Ure, C. R., 15.
Urhan, M., 283.
Urhan, O., 283.
Uritani, I., 285.
Urlings, J., 207.
Urries, M. J., 94, 97.
Uschatinskaja, R. S., 44.
Uschdraweit, H. A., 172, 269.
Usenko, V. V., 91.
Usinger, R. L., 52.
Usman, S., 272, 354.
Ustinov, A. A., 232.
Uto, T., 88.
Utrobina, N. M., 255.
Uttendörfer, O., 330.
Uvarov, B. P., 49.

Vaartaja, O., 239.
Vachhani, M. V., 99.
Vadé, S., 337.
Vago, C., 323.
Vahl, E. v., 199, 305.
Vajda, Z., 257.
Vajda, Z. J., 232, 244.
Vakhrushin, G. S.,
= Wachruschin, G. S.
Valantin, G., 12.
Valcarce, A. C., 47.
Valder, P. G., 88, 92, 102, 139, 173, 302.
Valdes Barry, F., 74.
Valdeyron, 97.
Valentini, S., 74.
Valenza, F., 60.
Valkeila, E., 74.
Valleau, W. D., 147, 148, 151.
Vallega, J., 97.
Valletta, A., 69.
Van Allen, R. G., 259.
Van Alphen de Veer, E. J., 35.
Van Beekom, C. W. C., 159.
Van Belle, G., 203.
Van Bever, M. L., 364.
Vanbreuseghem, R., 21.
Van Brunt, E. R., 31.
Van Burgh. P., 169.
Van Dame, H. C., 300.
Vandermark, J. S., 191, 304.
Van den Bosch, R., 183, 329.
Van den Brande, J., 40, 119, 163.
Vandenburg, D. O., 253.
Van den Ende, G., 240.
Van den Ende, J., 17.
Van den Muijzenberg, E. W. B., 189.
Vandenput, R., 348.
Van de Plassche, A. W., 371.
Vanderford, H. T., 73.
Van der Kerk, G. J. M., 339, 356.
Van der Kloes, L. J. J., 168, 171.
Van der Knaap, W. P., 282, 289.
Van der Kroft, W. G., 171, 172.
Van der Laan, P. A., 149.
Van der Lek, H. A. A., 263.
Van der Linden, L. 161, 266.
Van der Plasse, J. J., 201.
Van der Vecht, J., 105.
Van der Ven, R., 147.
Vanderwalle, R., 92, 97, 101, 114.
Van der Want, J. P. H., 124, 136, 147, 151.
Van der Zwaard, P., 263, 371.
Van Dinther, J. B., M. 131, 136, 348.
Van Doren, A., 305.
Van Emden, F. I., 61, 63.
Van Fraassen, A. M., 31.
Van Galen, J., 130.
Van Gemeren, P., 189, 371.
Van Goor, C. P., 232.
Van Haltern, F., 22.
Van Heerdt, P. F., 74.
Van Hiele, F. J. H., 117.
Van Hoeken, J., 139.
Van Hoof, H. A., 161, 164.
Van Horn, W. M., 311.
Vanicek, V., 193.
Van Katwijk, M., 107.
Van Klaveren, C., 263.
Van Koot, Ij., 156, 166, 168, 173, 175, 207, 322.
Van Laere, R., 220.
Van Leeuwen, E. R., 222.
Van Leeuwen, J. C., 171.
Van Lookeren Campagne, H., 117.
Van Luijt, P. A., 377.
Van Marle, G. S., 261, 263, 270.
Van Mol, L., 119.
Van Oosten, A., 189.
Van Orshoven, H., 379.
Van Overbeek, J., 179.
Van Raalte, D., 266.
Van Raalte, M. H., 151, 339, 357.
Van Rensburg, H. J., 144.
Van Rensburg, R., 296.
Van Romney, E., 127.
Van Roon, E., 137.
Van Rossem, G., 86, 337, 354.
Vanselow, A. P., 214.
Van Slijcken, A., 314.
Van Slogteren, D. H. M., 81, 265.
Van Slogteren, E., 80, 81.
Van Staalduine, D., 161.
Vanterpool, T. C., 91, 92, 143, 151, 152, 377.
Van Thiel, P. H., 354.
Van Tiel, N., 280.
Van't Woudt, B. D., 257.
Van Vliet, H., 102.
Van Vloten, H., 244.
Van Wijk, C. J., 189.
Vappula, N. A., 44.
Varadarajan, S., 365.
Varela, A., 183.
Vargas Méndez, J., 365.
Variot, R. P., 58.
Varley, G. C., 253.
Varma, M. G. R., 329.
Varma, P. M., 78, 151.
Varney, E. H., 257.
Vartanjan, M. D.,
= Wartanjan, M. D.
Vasić, K., 253.
Vasil'evskii, A. P.,
= Wasilewskij, A. P.
Vasseur, R., 181, 183, 228.
Vastagh, E., 363.
Vastagh, G., 363.
Vasudeva, R. S., 28, 79, 91, 97, 111, 116, 134, 324, 380.
Vatter, A. E., 172.
Vaughan, E. K., 134, 160, 162, 209.
Vaughn, J. R., 142, 143, 312.
Vaughn, W. T., 32.
Vaurie, P., 44.
Vayssière, P., 302.
Veerman, J. A., 371.
Vega, J., 228, 229.
Vega M., J. A., 358.
Vekemans, J., 358.
Venables, E. P., 44.
Venkatakrishnaiah, N. S., 100, 288, 294.
Venkataramani, K. S., 294.
Venkat Ram, C. S., 114.
Venkatraman, T. V., 108, 292, 328.
Venot, P., 222.
Venturi, F., 121, 156.
Verbeke, J., 163.
Verdcourt, B., 21, 29.
Verdejo Vivas, C., 345.
Verderevskii, D. D.,
= Werderewskij, D. D.
Verduzco Gutierrez, J., 233.
Vereshchagin, B. V.,
= Wereschtschagin, B. W.
Vereshchagina, V. V.,
= Wereschtschagina, W. W.

Vergani, A. R., 183, 219.
Vergarac, C., 286.
Vergnano, O., 16.
Vergnaud, M. H., 331.
Verhoeven, W. B. L., 337.
Verma, G. M., 259.
Verma, S. C. L., 333.
Vermes, M., 107, 130.
Vernon, T. R., 273.
Verona, O., 21, 111, 177, 214, 334, 354.
Verrall, A. F., 260, 309.
Vespignani, A., 357.
Vesterman, A., 356.
Vezin, Ch., 337.
Vicente, S., 69.
Vicini, L., 60.
Victor, 371.
Vidal, J. P., 52, 224.
Vidali, A., 148.
Vidal Mora, J. M., 159, 189.
Vidme, T., 37, 345.
Vieira, R., 51, 183.
Viel, G., 12, 319.
Viennot-Bourgin, G., 21, 26, 85, 97, 139, 160, 288, 294.
Vietinghoff-Riesch, A. v., 238, 247, 250, 323.
Viets jr., F. G., 132.
Viischer Caballero, E., 365.
Villani, R., 287.
Villeneuve, G. O., 234.
Villiers, A., 58.
Vincent, A., 100.
Vincent, M. H., 40.
Vindard, G., 17.
Vink, A. P. A., 35.
Vinogradov, B. S.,
= Winogradow, B. S.
Vinogradov, P. V.,
= Winogradow, P. W.
Vinson, E. B., 50.
Virtanen, A. I., 130.
Vishchepan, A. G.,
= Wischtschepan, A. G.
Visibelli, U., 156.
Vita, D., 363.
Vital, A. F., 26.
Vité, J. P., 247, 248, 250.
Vité, P., 253.
Vitomir, M., 24.
Vitteau, R., 320.
Vittum, M. T., 163, 164.
Vivani, W., 247, 377.
Vlag, A. F., 269.
Vlasov, A. A., = Wlasow, A. A.
Vlasveld, W. P. N., 189, 198, 203, 348.
Völk, J., 111.
Völker, 121.
Völker, H., 121.
Voevodin, A. V.,
= Woewodin, A. W.
Vogel, M., 15.
Vogel, O. A., 95, 98.
Vogel, W., 60, 180, 195.
Vogt, E., 63.
Voight, S., 226.
Voichishin, N. V.,
= Woitschischin, N. W.
Voitekhova, V. A.,
= Woitechowa, W. A.
Vojvodic, D., 189.
Volk, G. M., 112, 146, 147.
Volk, H. O., 51.
Volkov, S. T., = Wolkow, S. T.
Vollema, J. S., 283, 284.
Vollmann, M., 296.
Volodarskii, N. I.,
= Wolodarskij, N. I.
Volodin, A. P., 19.
Volosky de Hernandez, D., 97.
Volz, A. G., 195, 222.
Voß, H., 116.
Voûte, A. D., 253, 323.
Vovk, A. M., = Wowk, A. M.
Vradenburg jr., G. A., 348.
Vrijhof, B., 189, 198, 199.
Vrydagh, J. M., 62, 280.
Vuittenez, A., 229.
Vukasović, P., 302.
Vyvyan, M. C., 199.

Wabnitz, G., 102.
Wachek, F., 40.
Wachruschin, G. S., 235.
Wachter, J., 374.
Wadd, J. C., 74.
Waddoups, V., 169.
Wade, E. K., 101, 116, 171, 339.
Wade, G. C., 132, 174, 192, 201, 203.
Wade, J. S., 5.
Wade, P., 363.
Wade, W., 187, 222.
Wadleigh, C. H., 132.
Wadley, B. N., 196, 243.
Wadley, F. M., 44.
Wadsworth, D. F., 98.
Wadsworth, S. M., 146.
Wagener, P. S., 69.
Wager, V. A., 160, 171, 216.
Waggoner, P. E., 8, 116, 168, 171, 339, 371.
Wagman, G. H., 333.
Wagner, 164, 263.
Wagner, F., 97, 105.
Wagner, M., 10.
Wagnon, H. K., 196.
Wahl, B., 6.
Wahlroos, Ö., 130.
Wahlin, B., 40, 93, 154, 164.
Waibel, C., 213, 220.
Wain, R. L., 339, 347, 356.
Waisman, I., 189.
Waite, B. H., 284.
Waites, R. E., 354.
Wakazono, T., 256.
Wakefield, E. M., 26.
Wakefield, W. E., 260.
Wakeland, C., 50, 52.
Waksman, S. A., 11, 333, 334.
Walcott, G., 6.
Walder, W. O., 296, 334.
Waldman, R. K., 377.
Waldrip, W. J., 35.
Walkden, H. H., 299.
Walker, A., 365.
Walker, A. J. K., 102.
Walker, A. T., 28.
Walker, C. L., 296.
Walker, E. A., 312.
Walker, J., 173, 285.
Walker, J. C., 27, 80, 124, 141, 159, 162, 166, 171.
Walker, J. Ch., 157.
Walker, R. D., 15.
Walker, R. L., 278, 280.
Walkley, V. T., 304.
Wall, A., 107.
Wallace, A. T., 137.
Wallace, G. B., 5, 134, 289.
Wallace, G. E., 74.
Wallace, H. A. H., 90, 99, 301.
Wallace, J. M., 212, 220.
Wallace, M. J., 172.
Wallace, M. M., 134, 152, 294.
Wallace, M. M. H., 146.
Waller, E., 93.
Wallhäußer, K. H., 334.
Wallin, J. R., 22, 116, 171.
Wallis, R. L., 118.
Walls, K. W., 318.
Walmsley, F., 40.
Walmsley, L., 40.
Walrave, J., 124.
Walrecht, B. J. J. R., 74.
Walsh, D., 213.
Wålstedt, I., 93.
Walstrom, R. J., 137.
Walter, J. M., 156, 171, 240.
Walter, L., 296.
Walters, C. S., 377.
Walters, H. J., 81, 134.
Walters, W., 238.
Walther, R., 60, 160.
Walton, R. R., 136.
Walzel, G., 29, 148.
Wampler, E. L., 215.

Wandar, B. N., 31.
Wander, I. W., 213.
Wang, C. S., 291.
Wang, S. F., 309.
Wankar, B. N., 312.
Wann, F. B., 187.
Wantzen, 255.
Warcup, J. H., 235, 239, 244.
Ward, jr., E., 266.
Ward, J., 364.
Ward, J. C., 377.
Warden, R. L., 36, 144.
Warid, W. A., 141, 160.
Wark, D. C., 131.
Warmbrunn, K., 61, 97, 101, 102, 104, 114, 116, 121, 125, 126, 127, 131, 139, 154.
Warmke, H. E., 36.
Warnecke, G., 69.
Warner, O. F., 257.
Warner, R. L., 343.
Warren, G. F., 158, 345, 367.
Warren, J. C. R., 104.
Wartanjan, M. D., 225.
Washio, T., 21.
Wasilewskij, A. P., 263, 355.
Wason, E. J., 219.
Wasscher, J., 263, 265, 270.
Wasserburger, H.-J., 120, 189, 354.
Watanabe, B., 179, 294.
Watanabe, K. 146.
Watanabe, T., 166, 294.
Waterhouse, W. L., 97.
Waterman, A. M., 233.
Waters, H. A., 320.
Watertor, J. L., 150.
Watson, A. J., 151.
Watson, D. J., 2.
Watson, D. P., 199.
Watson, I. A., 98.
Watson, jr., J. R., 35, 144.
Watson, M. A., 130.
Watson, R. C., 157, 263.
Watson, R. D., 125.
Watts, J. G., 280.
Watts, L. F., 233.
Waud, R. A., 363.
Wauthoz, V., 250.
Way, J. M., 265.
Waymann, P., 260.
Waywell, C. G., 345.
Wear, L., 302.
Weathers, L. G., 79, 173.
Weaver, C. R., 55, 131, 140, 266, 296.
Weaver, E. P., 79, 80, 150.
Weaver, L. O., 165, 244.
Weaver, N., 377.
Webb, J. E., 51.
Webb, L. J., 31.
Webb, N. S., 259.
Webb, P. C. R., 70, 211.
Webb, R. E., 124, 166.
Webb, T. E., 137.
Webb, W., 249.
Weber, A., 1, 84, 86, 379.
Weber, E., 363.
Weber, F., 79, 80, 264.
Weber, G., 195.
Weber, G. F., 263.
Weber, P., 176.
Weber, P. V. V., 139.
Webster, B. N., 290.
Webster, J., 24, 93.
Webster, L. T., 238.
Webster, M. E., 364.
Webster, O. J., 88, 102.
Weckwerth, W., 253.
Wedding, R. T., 136, 160, 215.
Weed, R. M., 135, 356, 357, 366.
Weeder, K., 189.
Weeks, L. E., 11.
Weeks, M., 258, 307.
Weeks, W. D., 198.
Wegenaar, C., 185, 186.
Wegenaar, C. J., 189.
Weger, N., 15, 179, 225.
Wegorek, W., 152.
Wehmeyer, L. E., 24, 28.
Wehr, E. E., 40, 44.
Wei, C. T., 166.
Weibel, D. E., 109.
Weibull, G., 305.
Weichlein, R. G., 333.
Weick, F. E., 371.
Weidner, 205.
Weidner, H., 50, 253, 269, 296, 309.
Weigel, C. A., 263.
Weigle, C. G., 187.
Weiler, W., 229.
Weimer, J. L., 137, 138, 139.
Weinberger, J. H., 195.
Weinhardt, G., 61.
Weinman, C. J., 184, 195.
Weinmeister, B., 371.
Weintraub, M., 79, 82, 164, 196, 264.
Weintraub, R. L., 131, 132.
Weinzierl, R., 181.
Weise, R., 225.
Weiser, J., 63, 154, 323, 325.
Weis-Fogh, T., 47, 50.
Weiss, F., 1, 85.
Weiss, F. A., 337.
Weiss, J., 224.
Weißenborn, K., 197.
Weissmahr, J., 363.
Welch, C. L., 280.
Welch, H., 31.
Welch, J. E., 160, 167.
Weld, L. H., 74.
Wellenstein, G., 57, 233, 247, 250, 329, 337.
Weller, K., 111.
Wellington, W. G., 253.
Wellman, F. I., 283.
Wellmann, G., 74.
Wellmer, 128.
Wells, D. E., 240.
Wells, D. G., 91.
Wells, H. D., 100, 130.
Wells, J. C., 130.
Welsh, M. F., 177, 196.
Welte, E., 17, 120, 166.
Welter, R., 98.
Wemmert, N., 345.
Wenck, U., 8.
Wendelbo, P., 29.
Wene, G. P., 74, 107, 159, 160, 164, 172, 219, 280, 377.
Went, F. W., 17.
Went, J. C., 233, 240, 244, 257.
Wentzel, F., 377.
Wentzel, K. F., 233.
Wenzel, G., 69.
Wenzl, H., 18, 110, 111, 112, 114, 116, 130, 189, 203, 240, 298, 319, 345, 357.
Werderewskij, D. D., 226.
Wereschtschagin, B. W., 189.
Wereschtschagina, W. W., 253, 254.
Wernham, C. C., 88, 89.
Wesley, W. K., 50.
Wessel, R. D., 61.
West, A. S., 74.
West, E., 31, 93, 331.
West, T. F., 363.
West, W., 45.
Wester, R. E., 134.
Western, J. H., 143.
Westgate, P. J., 160, 267.
Westlake, W. E., 195, 352.
Westmoreland, W. G., 342.
Wet, E. I., 233.
Wettinger, 257.
Weyer, F., 302, 324.
Wheadon, E. A., 168.
Wheatley, G. A., 136.
Wheeler, G. C., 74.
Wheeler, H. E., 24, 92, 291, 332, 371.
Wheeler, J., 74.
Wheeler, W. H., 235.
Whetstone, R. R., 365.
Whiffin, H. J., 184.
Whipp, A. A., 219.
Whitcomb, W. D., 205.
Whitcomb, W. H., 280.
White, A. N., 51, 74, 160, 164, 172, 280.
White, C. E., 131.

White, D. L., 189.
White, G. D., 302.
White, G. L., 367.
White, I., 244.
White, R., 244.
White, R. W., 277.
Whitehead, E. I., 17.
Whitehead, G. B., 219.
Whitehead, M. D., 22, 24, 312.
Whitehill, A. R., 20.
Whiteside, A. M., 55.
Whitfield, C. J., 33.
Whiting, A. R., 329.
Whitnall, A. B. M., 55.
Whitworth, J. W., 33, 341, 366.
Whitworth, S. E., 33.
Wiancko, M. R., 35.
Wiant, J. S., 157, 297, 303.
Wichers, A. J., 186, 189.
Wichmand, H., 311.
Wicklund, H. T., 238.
Widdifield, R. B., 346.
Widmer, W. E., 354.
Wiebe, G. A., 93, 106.
Wiechert, E., 93.
Wiede, 348.
Wiehe, P. O., 286, 294.
Wiehler, 112.
Wightman, F., 347.
Wigman, A. B., 257.
Wilard, C. J., 88.
Wilbur, D. A., 105, 107, 108, 377.
Wilcke, D. E., 11.
Wilcox, J., 172.
Wildman, S. G., 80, 81, 172, 270.
Wiles, A. B., 166, 276.
Wilhelm, 224.
Wilhelm, A. F., 225, 227.
Wilhelm, St., 28, 208, 209.
Wiliamson, R. E., 16.
Wilkins, V. E., 181, 316, 379.
Wilkinson, J., 79.
Wilkinson, R. E., 79, 123, 166, 168, 173.
Willard, C. J., 104, 135, 143, 179, 345, 348.
Willaume, F., 337.
Willaume, S., 337.
Willburger, 189.
Wille, H., 61, 324.
Wille, J. E., 1, 119, 280, 337, 346.
Willeke, L., 334.
Williams, A. E., 311, 320.
Williams, A. H., 161.
Williams, A. T., 189, 320.
Williams, C. B., 2, 316, 319.
Williams, C. G., 270.
Williams, D. H., 272.
Williams, F., 279, 342.
Williams, F. H., 337.
Williams, G. C., 58.
Williams, H. E., 195.
Williams, J. H., 20.
Williams, J. R., 292.
Williams, J. W., 213.
Williams, K. F., 238.
Williams, L., 28.
Williams, O., 371.
Williams, P. H., 85, 171.
Williams, R. C., 80, 150.
Williams, R. T., 49.
Williamson, R. E., 319.
Willis, E. R., 49, 311.
Willis, J. D., 345.
Willison, R. S., 79, 196.
Willmann, C., 42.
Wills, B., 267.
Wilner, J., 15, 235.
Wilson, A. R., 297.
Wilson, B. R., 301.
Wilson, C. G., 143.
Wilson, D. G., 35.
Wilson, E. E., 28, 222.
Wilson, E. O., 72, 74.
Wilson, G., 17, 292.
Wilson, H. B., 51.
Wilson, J. D., 111, 114, 157, 166, 171, 320, 371.
Wilson, J. P., 276.
Wilson, J. S., 345, 348, 367.
Wilson, J. W., 107, 354.
Wilson, K. O., 238.
Wilson, M., 26.
Wilson, M. C., 131, 140, 314.
Wilson, N. S., 195.
Wilson, R. A., 192, 200.
Wilson, R. D., 134, 136.
Wilson, R. Q., 362.
Wilson, R. W., 148.
Wilson-Jones, K., 29, 37.
Wilten, W., 98.
Wiltshire, E. P., 69.
Wiltshire, G. R., 11.
Winburn, T. F., 302.
Winch jr., F. E., 233.
Windish, J. P., 199.
Winer, H. I., 232.
Wingrave, E. G., 162, 168, 209.
Winkelmann, A., 117.
Winkler, A. J., 229.
Winkler, J., 300.
Winner, C., 125, 371.
Winning, E. v., 320.
Winogradow, B. S., 256.
Winogradow, P. W., 107.
Winsor, H. W., 11.
Winstanley, J. K., 55.
Winstead, N. N., 19.
Winston, J. R., 215.
Winter, 124.
Winter, A. G., 334.
Winter, G., 15. 334.
Winter, H. F., 209.
Winteringham, F. P. W., 354, 365.
Winton, C., 379.
Wischtschepan, A. G., 111.
Wise, W. S., 320.
Wiskerke, D., 131.
Wismer, C. A., 292.
Witherspoon, J. C., 238.
Witmer, F. J., 360.
Witt, J. M., 361.
Witt, R. L., 214.
Witte, K., 15, 179.
Wittstadt, H., 69.
Wittwer, S. H., 8, 125.
Wlasow, A. A., 240.
Wodarz, 138.
Woermann, E., 1.
Woestemeyer, V., 145.
Woewodin, A. W., 348.
Woglum, R. S., 219.
Woitechowa, W. A., 91, 154.
Woitschischin, N. W., 98.
Wolburg, I., 77.
Wolcott, G. N., 44, 316.
Wolcyrz, S., 82.
Wold, A., 345.
Wolf, C. N., 347.
Wolf, D., 109, 330.
Wolf, D. E., 348.
Wolf, F. A., 147, 272.
Wolf, F. T., 98, 244, 272.
Wolf, J., 305.
Wolfe, H., 345.
Wolfe, H. R., 184, 196.
Wolfe, H. S., 263.
Wolfenbarger, D. O., 118, 171, 219.
Wolfram, R., 302.
Wolkow, S. T., 97.
Wollner, 124.
Wolodarskij, N. I., 151.
Wolters, F. A., 35.
Womeldorph jr., S. E., 192.
Wong, H. R., 255.
Wong, S. S., 290, 325.
Woo, J. Y., 101.
Wood, G. M., 138.
Wood, H. E., 35, 36, 37, 145, 345.
Wood, J. W., 348.
Wood, M. N., 222.
Wood, W. C., 238.
Woodbridge, C. G., 179, 199.
Woodbury, G. W., 112.
Woodcock, D., 353, 362.
Woodford, E. K., 143, 342, 348.
Woodforde, A. H., 345, 380.
Woodhead, C. E., 201.
Woodroffe, G. E., 52.

Woods, F. W., 238.
Woodside, A. M., 205.
Woodward, C. F., 364.
Woodward, C. H., 35, 345.
Woodward, R. W., 98.
Woolfolk, E. J., 36.
Woolley, D. W., 20.
Wooten, R. H., 276.
Worden, A. N., 77.
Work, P., 157.
Workman, R., 238.
Worley, D. P., 36.
Worst, J., 319.
Wort, D. J., 348.
Worthington, J. T., 170.
Worz, A., 69.
Wouda, K. P., 340.
Woudenberg, A. J., 348.
Wowk, A. M., 124, 172, 173.
Wrench, P. G., 377.
Wright, C. M., 23.
Wright, D., 69.
Wright, D. H., 114.
Wright, D. N., 114, 117.
Wright, D. W., 164, 167.
Wright, E., 244, 260, 309.
Wright, F., 238.
Wright, J., 367.
Wright, J. M., 27, 108.
Wright, N. S., 124.
Wright, P. H., 74, 269.
Wright, S. B., 294.
Wright, W. R., 174, 192.
Wu, Y. S., 97, 98.
Wünsche, M., 309.
Wünscher, Ch., 111.
Wüstmann, J., 355.
Wundrig, G., 121.
Wygant, N. D., 249.
Wylie, R. B., 312.
Wylie, W. D., 191.
Wyman, D., 235.
Wynd, F. L., 20.
Wysong, N., 18.

Xeros, N., 44, 323.

Yagi, N., 319.
Yakar, N., 17.
Yale, J. W., 162.
Yamada, R., 365.
Yamada, S., 220, 319.
Yamada, T., 146.
Yamaguchi, M., 160.
Yamaguchi, T., 107.
Yamamoto, K., 367.
Yamamoto, M., 21.
Yamamoto, S., 104, 140.
Yamamoto, T., 377.
Yamamoto, W., 24.
Yamane, G., 273.
Yamasaki, T., 354, 363.
Yamashina, H., 89.
Yamasita, Z., 106.
Yamazaki, A., 74.
Yamazumi, R., 8.
Yanagawa, R., 258, 324.
Yanagisawa, T., 251.
Yarar, Ö., 363.
Yarham, E. R., 238.
Yarnell, S. H., 108.
Yarwood, C. E., 21, 22, 24, 79, 80, 81, 134, 137, 151, 191, 193.
Yashiro, H., 225.
Yasumi, T., 99.
Yates, J., 140.
Yeatman, J. N., 132.
Yeomans, A. H., 44, 320, 354, 371.
Yerington, A. P., 357, 365.
Yerkes jr., W. D., 22.
Yocom, J. E., 362.
Yoda, A., 100.
Yokoyama, S., 104, 130.
Yokozawa, Y., 186, 289.
York jr., E. T., 281.
York, G. T., 50, 330.
York, J. O., 100.
Yoshida, D., 150.
Yoshii, H., 166, 220.
Yoshimeki, M., 108.
Yoshimura, S., 91.
Yoshioka, H., 334.
Yosida, T., 362.
Yothers, M. A., 195.
Young jr., D. A., 56.
Young, D. W., 345, 346.
Young, H., 77.
Young, H. C., 189, 244, 320.
Young jr., H. C., 98.
Young, H. E., 282, 284.
Young, L. C., 112.
Young, M. T., 280.
Young, P. A., 85, 171.
Young, R. A., 112, 193, 233, 268, 295.
Young, V. A., 34.
Young, V. H., 275.
Young, W. J., 303, 305.
Younkin, S. G., 165, 171.
Yugaguchi, T., 332.
Yuasa, H., 44, 108, 337.
Yuill, J. S., 321.
Yukawa, Y., 101, 173.
Yurgenson, P. B., 272.
Yust, H. R., 219.

Zabala, S., 141.
Zacha, V., 143, 193.
Zacharowa, E. I., 224.
Zacher, F., 62, 88, 108, 296, 302.
Zachos, D. G., 22, 79, 85, 134, 139.
Zäch, C., 189.
Zadina, J., 114, 117.
Zagaikewitsch, J. K., 252.
Zagorowskij, A. W., 149.
Zahnley, J. W., 33.
Zahradník, J., 56, 330.
Zaitlin, M., 16, 81, 270.
Zakharova, E. I., = Zacharowa, E. I.
Zakopal, J., 117.
Zalitschina, M. N., 235.
Zalik, S., 36, 91.
Zambettakis, Ch., 156.
Zamin Naqvi, S. H., 28.
Zander, E., 183.
Zandstra, K. J., 30.
Zangheri, S., 131.
Zanon, C., 179.
Zapata, M., 332.
Zappettini, G., 32.
Zarco, E., 248.
Zaumeyer, W. J., 134, 136, 137, 164, 333.
Zdraikowskaja, A. M., 251.
Zech, H., 81.
Zecha, E., 305.
Zeddies, A., 238.
Zeller, A., 80, 124.
Zenjakin, L. A., 108.
Zenkert, C. A., 31.
Zentgraf, E., 233.
Zentmyer, G. A., 4, 23, 289.
Zeumer, H., 302, 337, 358, 377.
Zezschwitz, v., 260.
Zhetvin, D., 125.
Zhetvin, D. P., 125.
Zhilitskii, I. A., 198.
Zhitkevich, E. N., 125.
Zhorzholadze, K. V., 125.
Zhukowskij, A. W., 69, 107, 146.
Zhukowa, K. P., 139.
Zhurawlew, I. I., 244.
Zieger, E., 257.
Zieglé, J., 97.
Ziegler, O., 56.
Zienkiewicz, H., 151.

Zilch, A., 41.
Zillig, H., 69, 224.
Zimmer, S. J., 321.
Zimmerman, C., 135.
Zimmerman, P. W., 348.
Zimmerman, W. E., 359.
Zimmermann, 102, 121, 152, 302, 354.
Zimmermann, F., 56, 145.
Zimmermann, H., 117.
Zimmermann, I., 205.
Zimmermann, J., 229.
Zimmermann, K., 77.
Zimmermann, P. W., 31, 168.
Zimmermann, W. A., 310.
Zimmern, A., 51.
Zinkernagel, R., 57.
Zinno, Y., 240.
Zirkel, H., 302.
Zirngiebl, L., 74.
Zitzewitz, A. v., 117.
Zitzewitz, [A.] v., 117.
Živanović, V., 69.
Zoberst, W., 310.
Zobrist, L., 193, 201, 203, 240, 260, 267, 310, 365.
Zocchi, R., 69, 251, 254.
Zogg, H., 24.
Zonderwijk, P., 340, 345.
Zoschke, M., 342.
Zubow, M. F., 227, 231.
Zuckerman, B. M., 242.
Zunino, H. A., 74.
Zwartendijk, J., 85, 321, 351.
Zweigelt, F., 229.
Zwintzscher, M., 203.
Zwölfer, W., 6, 233, 337.
Zycha, H., 233, 244, 260, 310.
Zylka, St., 205.

705 707 1000 6.59